



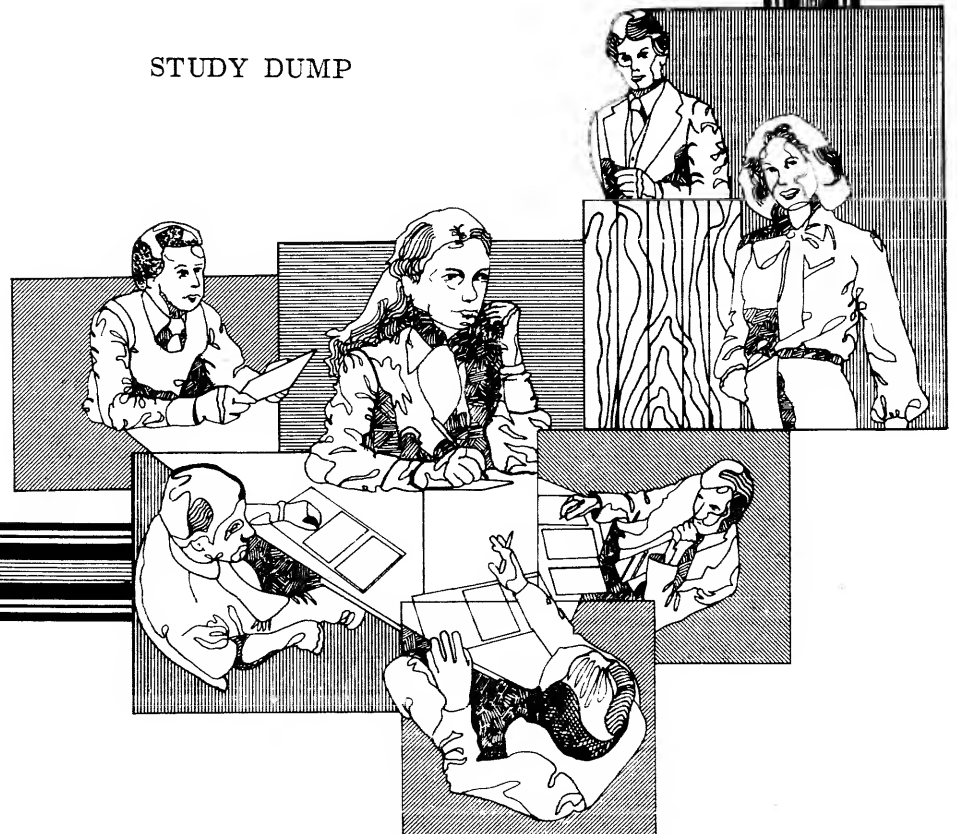
CONTROL DATA  
CORPORATION

# SEMINARS

COURSE NO. FH4010-4

NOS ANALYSIS

STUDY DUMP



COURSE NO. FH4010-4

NOS ANALYSIS

STUDY DUMP

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 NOS ANALYSIS STUDY DUMP

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 back of this manual.

ALBERT

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	1
1	IPL	PP (7421)	61	1617	79/07/17.	INITIAL PROGRAM LOADER -CTI-.		
2	CO7	PP (6120)	135	7257	79/07/17.	CO7 (ATS) TAPE DRIVER -CTI-.		
3	CO6	PP (6120)	137	3435	79/07/17.	CO6 (MTS) TAPE DRIVER -CTI-.		
4	CO3	PP (6120)	135	7033	79/07/17.	3000 TYPE TAPE DRIVER -CTI-.		
5	CD4	PP (6120)	143	1733	79/07/17.	844 DISK DRIVER -CTI-.		
6	CO8	PP (6120)	143	6741	79/07/17.	885 DISK DRIVER -CTI-.		
7	IOQ	PP (6000)	76	2561	79/07/17.	INITIAL OPERATOR QUERIES -CTI-.		
8	OIP	PP (0010)	466	2125	79/07/17.	78/06/09. 78/06/09. OPERATOR INTERVENTION PROCESSOR.		
9	AEI	PP (6000)	55	5362	79/07/17.	UTILITIES EXECUTIVE -CTI-.		
10	ICD	PP (0150)	325	0043	79/07/17.	INSTALL CTI ON DISK. CTI.		
11	ICE	PP (0150)	141	5625	79/07/17.	OVERLAY FOR ICD. CTI.		
12	EDO	PP (6000)	57	0245	79/07/17.			
13	EDT	PP (0100)	420	6443	79/07/17.			
14	DEM	PP (1201)	107	4702	79/07/17.			
15	OPC	PP (1060)	44	0464	79/07/17.			
16	SAO	PP (0100)	121	2245	79/07/17.	SELECT ALTERNATE DEADSTART DEVICE. CTI.		
17	OHE	PP (0010)	431	6746	79/07/17.			
18	MAO	PP (0010)	355	1466	79/07/17.			
19	PCM	PP (0010)	556	4144	79/07/17.			
20	CMC	PP (3451)	210	0251	79/07/17.			
21	SCE	PP (3451)	215	5737	79/07/17.			
22	EBL	PP (0200)	411	2537	79/07/17.	EXTERNAL BOOTSTRAP LOADER. CTI.		
23	ZZZ	PP (0000)	2	2142	79/07/17.	LAST PROGRAM -CTI-.		
24	OSB	PP (6320)	55	7234	79/06/20.	79/05/10. OPERATING SYSTEM BOOTSTRAP.		
25	OIO	PP (0000)	456	0516	79/06/20.	79/05/10. DEADSTART I/O PROCESSOR.		
26	(00)	SUM =	6721	LIBRARY =	1			
27	SET	PP (0000)	426	2751	79/06/20.	78/04/10. 79/05/09. INITIALIZE SYSTEM.		
28	CMR	PP (1462)	1054	4061	79/06/20.	78/04/10. 79/05/09. SET - SET SYSTEM CONFIGURATION.		
29	CMRINST	TEXT	733	2775				
30	CMRDECK	TEXT	321	4163				

CMRDECK  
NAME= (0) CYBER 174 S/N 620 CLSH.  
VERSION=NOS 1.4-501/498.  
MID=62.  
NCP=24.  
FNT=1756.  
CM=7777.  
EQ01=DQ-1,ON,0,42,5,7. SYSTEM, TEMP  
EQ02=DQ-1,ON,0,43,5,7. SYSTEM,TEMP  
EQ04=DI-1,ON,0,6,21,20. TEMP  
EQ05=DI-1,ON,0,16,20,21. TEMP  
EQ06=DK-2,ON,4,26,20,21. PF/40  
EQ07=DI-N3,ON,0,24,34,44,22,24.  
EQ10=OS,ON,7,0,10.  
EQ11=DJ-1,ON,0,2,23,24. RMVE  
EQ12=DQ-1,ON,0,40,7,5. PF/42  
EQ13=DQ-1,ON,0,41,5,7. PF/43  
EQ14=DJ-N2,ON,0,3,4,21,20. PF/44  
EQ15=DI-1,ON,0,5,23,24.  
EQ16=DI-1,ON,0,6,23,24.  
EQ17=DI-1,ON,0,4,23,24.  
EQ20=DI-1,ON,0,54,24,22. RMVE  
EQ21=DI-1,ON,0,64,22,24. RMVE  
EQ22=DJ-1,ON,0,0,22,23. FMD DRIVE FOR TESTING  
EQ23=DI-1,ON,0,35,22,23. RMVE

REC	CATALOG OF OS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	2
			EQ24=DJ-1,ON,0,1,24,22.			RMVE			
			EQ27=DJ-1,ON,0,3,22,23.			RMVE			
			EQ30=DK-1,ON,0,46,20,21.			RMVE, FT.			
			EQ32=DI-1,ON,0,7,23,24.			RMVE			
			EQ33=DJ-1,ON,0,5,20,21.			RMVE			
			EQ34=DJ-1,ON,0,0,7,5.			RMVE			
			EQ35=DJ-1,ON,0,1,5,7.			RMVE			
			EQ36=DI-1,ON,0,14,22,24.						
			EQ37=DI-1,ON,0,15,22,23.						
			EQ40=TT,OFF,7,2,0,,30.			TRANEX STIMULATOR			
			EQ41=TT,OFF,0,1,0,0,100.			STIMULATOR			
			EQ42=TT,ON,2,,2,,100.			2550-100 (6676 EMULATOR)			
			EQ43=ST,OFF,7,,4.			6671			
			EQ44=NP,ON,7,1,1,,2.			NPU NOOE3			
			EQ45=NP,OFF,7,1,6,,2.			LOCAL/REMOTE NPU NODE7			
			EQ46=SE,ON,7,,4.			STEM 6671 S/N 183.			
			EQ47=CR,ON,4,,12.						
			EQ50=MT-7,ON,0,0,13,32,,,20.	66X					
			EQ60=MT-7,ON,4,0,31,33,,,10.	67X					
			EQ70=CP,ON,7,,12.						
			EQ71=LP,ON,3,,12.	512					
			EQ72=LP,ON,2,,12.						
			EQ73=LT-6,ON,5,,12.			580 UPPER/LOWER CASE			
			EQ74=LS-1P,ON,6,,12.			580-20 PFC			
			PF=6,F,140,140,NOSCLSH,40.						
			PF=7,F,010,010,NOSCLSH,41.						
			PF=12,F,003,003,NOSCLSH,42.						
			PF=13,F,200,200,NOSCLSH,43.						
			PF=14,F,024,024,NOSCLSH,44.						
			TEMP=1,2,4,5.						
			REMOVE=11,15,16,17,20,21,22,23,24,27,30,32,33,34,35,36,37.						
			FAMILY=13.						
			SYSTEM=1,2.						
			NAMIAF=102.						
31	CMRDCK1	TEXT	154	1731					
			CMRDCK1						
			NAME=(1) CYBER 175 SN/01 (FILES):						
			VERSION=NOS 1.4-501/498.						
			MID=01.						
			NCP=27.						
			EQ1=OK-1,ON,0,2,20,23.			SYSTEM, TEMP,FULL TRACK			
			EQ2=OK-1,ON,0,3,20,23.			SYSTEM, TEMP,FULL TRACK			
			EQ3=DI-1,ON,0,57,00,02.			FAMILY			
			EQ4=DJ-1,ON,0,2,00,02.			REMOVABLE			
			EQ5=DJ-1,ON,0,3,00,02.			REMOVABLE			
			EQ6=DJ-1,ON,0,4,00,02.			REMOVABLE			
			EQ7=DJ-1,ON,0,1,00,02.			REMOVABLE			
			EQ10=OS,ON,7,0,10.						
			EQ11=DI-1,ON,0,37,00,02.			REMOVABLE			
			EQ12=DI-1,ON,0,47,00,02.			REMOVABLE			
			EQ13=DI-1,ON,0,27,00,02.			REMOVABLE			
			EQ14=DI-1,ON,0,17,00,02.			REMOVABLE			
			EQ15=DM-1,ON,0,42,7.			TEMP			
			EQ16=DM-1,ON,0,43,7.			TEMP			
			EQ20=CR,ON,4,0,11.						

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	3
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EQ21=CP,ON,5,0,12.  
 EQ22=LR,ON,1,0,12.  
 EQ23=LQ,ON,2,0,12.  
 EQ24=LR,ON,7,0,12.  
 EQ25=LP,ON,6,0,11.  
 EQ30=TT,ON,6,0,27,0,20.  
 EQ31=TT,ON,7,1,27,0,100.  
 EQ32=TT,OFF,7,2,25,0,100.  
 EQ33=ST,OFF,6,0,4.  
 EQ35=NP,ON,7,1,5,,2. NPU NOOE3  
 EQ50=MT-10,ON,0,0,13,,,20.  
 EQ60=MT-7,OFF,0,0,32,,,10.  
 TEMP=1,2,15,16.  
 FAMILY=3.  
 REMOVE=4,5,6,7,11,12,13,14.

32	CMROCK2	TEXT	237	3604				
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CMROCK2  
 NAME=(2) CYBER73 172. DEV.  
 VERSION=NOS 1.4-501/498.  
 MIO=72.  
 NCP=27.  
 LIB=1.  
 EQ1=DJ-1,ON,0,6,26,32. SYSTEM,TEMP  
 EQ2=DJ-1,ON,0,7,26,32. SYSTEM,TEMP  
 EQ3=DJ-1,ON,0,1,26,32. TEMP  
 EQ4=DI-1,ON,0,2,26,32. REMOVABLE  
 EQ5=DI-1,ON,0,3,26,32. REMOVABLE  
 EQ6=DI-1,ON,0,4,26,32. REMOVABLE  
 EQ7=DI-1,ON,0,5,26,32. FAMILY  
 EQ10=OS,ON,7,,10.  
 EQ11=OP,ON,400,30. ASR,ROLLOUT  
 EQ20=CR,ON,4,,12.  
 EQ21=CP,ON,5,,12.  
 EQ22=LP,ON,6,,12. 580  
 EQ23=LT-1,ON,7,,12. 580-20  
 EQ24=LP,ON,3,,12. 512  
 EQ30=TT,ON,7,,4,,20. 6671  
 EQ31=TT,ON,7,,6,,40. 6676  
 EQ32=TT,OFF,6,1,0,,310. TELEX STIMULATOR - 200 TERMINAL  
 EQ33=TT,OFF,6,1,0,,226. TELEX STIMULATOR - 150 TERMINAL  
 EQ34=NQ,OFF,7,1,1,,3. 2550 S/N 121 NODE3  
 EQ35=NP,OFF,7,1,3,,3. 2550 S/N 101 NODE2  
 EQ36=SE,OFF,7,3,4. STEM 6671 S/N 113  
 EQ37=SE,OFF,7,3,5. STEM 6671 S/N 230  
 EQ40=TS,OFF,2,0,25,0,100. 6676 STIMULATOR - 100 TERMINALS  
 EQ41=TS,OFF,7,0,2,0,100. 6676 STIMULATOR - 100 TERMINALS  
 EQ42=NP,OFF,7,1,11,0,2. 2550 STIMULATOR S/N 102/112  
 EQ46=ST,OFF,7,,5. REMOTE BATCH  
 EQ47=TT,OFF,4,2,0. TRANEX STIMULATOR  
 EQ60=MT-6,ON,0,0,33,31,,,20. 66X  
 EQ70=SC,ON,7,2,27. 211  
 EQ71=SC,ON,7,1,27. 211  
 EQ72=SC,ON,6,2,27,,4. 211  
 EQ73=SC,ON,6,1,27,,4. 211  
 EQ76=TE,ON,,,0.

REC	CATALOG NAME	OF DS TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	4
						TEMP=1,2,3. REMOVE=4,5,6. FAMILY=7. ASR=11. UEC=200. SYSTEM=1,2.			
33	CMRDCK3	TEXT	343	5772		CMRDCK3 NAME= (3) CYBER 174 S/N 620 CLSH MMF. VERSION=NDS 1.4-501/498. MID=62. NCP=24. LIB=1. FNT=1756. CM=7777. EQ1=DQ-1,ON,0,42,5,7. EQ2=DQ-1,ON,0,43,5,7. EQ4=DI-1,ON,0,6,21,20. TEMP EQ5=DI-1,ON,0,16,20,21. TEMP EQ6=DI-2,ON,4,26,20,21. PF/40 EQ7=DI-N3,ON,0,24,34,44,22,24. PF/41 EQ10=DS,ON,7,0,10. EQ11=DP,ON,400,30. LINK,ASR EQ12=DM-1,ON,0,40,7,5. PF/42 EQ13=DM-1,ON,0,41,5,7. PF/43 EQ14=DJ-N2,ON,0,3,4,21,20. PF/44 EQ15=DI-1,ON,0,5,23,24. REMOVE EQ16=DI-1,ON,0,6,24,23. REMOVE EQ17=DI-1,ON,0,4,23,24. REMOVE EQ20=DI-1,ON,0,54,24,22. REMOVE EQ21=DI-1,ON,0,64,22,24. REMOVE EQ22=DJ-1,ON,0,0,22,23. FMD DRIVE FOR TESTING EQ23=DI-1,ON,0,35,22,23. REMOVE EQ24=DJ-1,ON,0,1,24,22. REMOVE EQ27=DJ-1,ON,0,3,22,23. REMOVE EQ30=DI-1,ON,0,46,20,21. REMOVE EQ32=DI-1,ON,0,7,23,24. REMOVE EQ33=DJ-1,ON,0,5,20,21. REMOVE EQ34=DJ-1,ON,0,0,7,5. RMVE EQ35=DJ-1,ON,0,1,5,7. RMVE EQ36=DI-1,ON,0,14,22,24. RMVE EQ37=DI-1,ON,0,15,22,23. RMVE EQ40=TT,OFF,7,2,0,,30. TRANEX STIMULATOR EQ41=TT,OFF,0,1,0,0,100. STIMULATOR. EQ42=TT,ON,2,,2,,100. 2550-100 (6676 EMULATOR) EQ43=ST,OFF,7,,4. 6671 EQ44=NP,ON,7,1,1,,2. NPU NODE3 EQ45=NP,OFF,7,1,6,,2. LOCAL/REMOTE NPU NODE7 EQ46=SE,ON,7,,4. STEM 6671 S/N 183. EQ47=CR,ON,4,,12. EQ50=MT-7,ON,0,0,13,32,,,20. 66X EQ60=MT-7,ON,4,0,31,33,,,10. 67X EQ70=CP,ON,7,,12. EQ71=LP,ON,3,,12. 512 EQ72=LP,ON,2,,12. 512			

REC	CATALOG OF DS NAME	OS TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	5
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EQ73=LT-6,ON,5,,12. 580 U/L CASE  
EQ74=LS-1P,ON,6,,12. 580-20 PFC  
PF=6,F,140,140,NOSCLSH,40.  
PF=7,F,010,010,NOSCLSH,41.  
PF=12,F,003,003,NOSCLSH,42.  
PF=13,F,200,200,NOSCLSH,43.  
PF=14,F,024,024,NOSCLSH,44.  
TEMP=1,2,4,5.  
REMOVE=15,16,17,20,21,22,23,24,27,30,32,33,34,35,36,37.  
FAMILY=13.  
LINK=11.  
SHARE=12,6,7,11,13,14,15,16,17,22,4,5,24.  
SHARE=20,21,23,27,30,32,33,34,35,36,37.  
UEC=30,72.  
UEC=30,62.  
ASR=11.  
PF=11,F,377,377,LINK,62.  
NAMIAF=102.  
SYSTEM=1,2.

34	CMRDCK4	TEXT	311	0664					
	CMRDCK4								
	NAME=(4) CYBER73					172. CLSH MMF.			
	VERSION=NOS					1.4-501/498.			
	MID=72.								
	LIB=0.								
	NCP=24.								
	FNT=1756.								
	EQ1=DJ-1,ON,0,7,26.				SYSTEM,TEMP				
	EQ2=DJ-1,ON,0,1,26.				SYSTEM,TEMP				
	EQ4=DI-1,ON,0,6,21,20.				TEMP				
	EQ5=DI-1,ON,0,16,20,21.				TEMP				
	EQ6=DI-2,ON,4,26,20,21.				PF/40				
	EQ7=DI-N3,ON,0,24,34,44,22.				PF/41				
	EQ10=DS,ON,7,0,10.								
	EQ11=DP,ON,400,30.				LINK,ASR				
	EQ12=DM-1,ON,0,40,13,24.				PF/42				
	EQ13=DM-1,ON,0,41,24,13.				PF/43				
	EQ14=DJ-N2,ON,0,3,4,21,20.				PF/44				
	EQ15=DI-1,ON,0,5,23.				REMOVE				
	EQ16=DI-1,ON,0,6,23.				REMOVE				
	EQ17=DI-1,ON,0,4,23.				REMOVE				
	EQ20=DI-1,ON,0,54,22.				REMOVE				
	EQ21=DI-1,ON,0,64,22.				REMOVE				
	EQ22=DJ-1,ON,0,0,22,23.				REMOVE				
	EQ23=DI-1,ON,0,35,22,23.				REMOVE				
	EQ24=DJ-1,ON,0,1,22.				REMOVE				
	EQ27=DJ-1,ON,0,3,22,23.				REMOVABLE				
	EQ30=DI-1,ON,0,46,20,21.				REMOVE				
	EQ32=DI-1,ON,0,7,23.				REMOVE				
	EQ33=DJ-1,ON,0,5,20,21.				REMOVE				
	EQ34=DJ-1,ON,0,0,13,24.				RMVE				
	EQ35=DJ-1,ON,0,1,13,24.				RMVE				
	EQ36=DI-1,ON,0,14,22.				RMVE				
	EQ37=DI-1,ON,0,15,22,23.				RMVE				
	EQ40=TT,UFF,7,2,0,,30.				TRANEX STIMULATOR				

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
					79/10/31. 08.56.15.	PAGE 6
						EQ41=TT,ON,0,1,0,0,100. TIME-SHARING STIMULATOR
				6676		EQ42=TT,ON,7,,6,,77.
				6671		EQ43=ST,OFF,7,,4.
				2550	S/N 124	EQ44=NP,ON,7,,3,,2. NODE2
					STEM 6671	EQ45=SE,OFF,7,,5,,3. S/N 113
						EQ47=CR,ON,4,,12.
				66X		EQ60=MT-6,ON,0,0,31,33,,20.
						EQ70=CP,ON,5,,12.
				512		EQ72=LP,OFF,3,,12.
				512		EQ73=LP,ON,7,,12.
				512		EQ74=LP,ON,6,,12.
						TEMP=1,2,4,5.
						FAMILY=13.
						LINK=11.
						SHARE=12,6,7,11,14,15,16,17,13,4,5.
						SHARE=20,21,23,27,30,32,33,34,35,36,37,22,24.
						REMOVE=15,16,17.
						REMOVE=20,21,23,27,30,32,33,34,35,36,37,22,24.
						ASR=11.
						LBC,NH,20,21.
						LBC,FT,20,21.
						UEC=30,72.
						UEC=30,62.
						PF=11,F,377,377,LINK,72.
						SYSTEM=1,2.
35	CMRDCK5	TEXT	13	3135		
						CMRDCK5
						NAME=(5) UNIVERSAL CMRDECK.
						VERSION=NOS 1.4-501/498.
						EQ10=DS,ON,7,0,10. DSD CONSOLE
36	ICM	PP (2532)	645	3550	79/06/20. 78/04/10. 79/05/09.	SET - INITIALIZE CENTRAL MEMORY.
37	IPR	PP (1462)	252	4263	79/06/20. 78/04/10. 79/05/09.	SET - INSTALLATION PARAMETERS.
38	IPRINST	TEXT	624	1470		
39	IPRDECK	TEXT	157	3334		
						IPRDECK
						TDEN=HY.
						CSM=64.
						LOCK.
						E1200.
						VALID.
						IAF.
						QUEUE,SY,IN,OP7757,LP700,UP3000.
						QUEUE,SY,RO,OP6000,LP100,UP1000.
						QUEUE,SY,OT,OP400,LP100,UP7700.
						SERVICE,SY,PR1,CP100,CH20.
						QUEUE,BC,IN,OP2400,LP2000,UP4010.
						QUEUE,BC,RO,OP2400,LP1010,UP4004.
						QUEUE,BC,OT,OP200,LP100,UP7000.
						SERVICE,BC,PR30,CP400,CH200.
						QUEUE,EI,IN,OP3400,LP2400,UP4010.
						QUEUE,EI,RO,OP3400,LP1400,UP4006.
						QUEUE,EI,OT,OP200,LP100,UP7600.
						SERVICE,EI,PR30,CP400,CH200.
						QUEUE,TX,IN,OP4000,LP3770,UP7006.

REC	CATALOG OF OS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	7
					QUEUE,TX,RO,OP4004,LP3740,UP7000. QUEUE,TX,OT,OP200,LP100,UP7000. SERVICE,TX,PR30,CP40,CM10. QUEUE,MT,IN,OP6774,LP6700,UP7400. QUEUE,MT,RO,OP6774,LP4000,UP7400. QUEUE,MT,OT,OP6000,LP100,UP7700. SERVICE,MT,PR31,CP400,CM60. QUEUE,NS,IN,OP7374,LP7360,UP7500. QUEUE,NS,RO,OP7374,LP7350,UP7500. QUEUE,NS,OT,OP500,LP100,UP7700. SERVICE,NS,PR73,CP400,CM200. DELAY,JS1,CS10,AR1000. OSO,0,MAIXX.QREC(NK) OSO,3,AUTO. SCP. MS VALIDATION. PF VALIDATION. SRST=40.			
40	PPR	PP (0000)	143	2576	79/06/20.	79/05/10.	79/06/20.	PP RESIDENT.
41	STL	PP (1100)	244	1533	79/06/20.	79/05/10.		SYSTEM TAPE LOADER.
42	MTR	PP (0000)	1434	1263	79/07/26.	79/05/10.	79/07/26.	PPU MONITOR.
43	CPUMLD CPUMLD	REL	763	1622	79/06/20.	79/05/10.		75/02/17. CPUMTR LOADER.
44	CPUMTR CPUMTR	REL	12105	0251	79/07/26.	79/05/10.	79/07/26.	CPU MONITOR.
45	OSO	PP (0000)	1462	3335	79/06/20.	79/05/10.		SYSTEM DISPLAY.
46	RSL	PP (1504)	57	7672	79/06/20.	79/05/10.		STL - LOAD RESIDENT SYSTEM LIBRARY.
47	RMS	PP (1210)	473	1051	79/07/10.	79/05/10.	79/07/10.	MSM - MASS STORAGE RECOVERY MANAGER.
48	REC	PP (1100)	713	0660	79/06/20.	78/01/18.		SYSTEM RECOVERY PROCESSOR.
49	IDD	PP (1511)	54	5327	79/06/20.	79/05/10.	79/06/20.	PPR - DUMP DAYFILE BUFFER.
50	1MA	PP (1100)	147	5503	79/06/20.	78/04/10.	79/05/09.	MONITOR AUXILLARY PROCESSOR.
51	2MB	PP (2124)	74	2347	79/06/20.	78/04/10.	79/05/09.	2MB - ECS STORAGE REQUEST PROCESSING.
52	2MA	PP (2124)	174	5031	79/06/20.	78/04/10.	79/05/09.	2MA - SYSTEM CP FACILITY PROCESSOR.
53	1MB	PP (1100)	37	4332	79/06/20.	79/05/10.		1MB - INITIAL SCR PROCESSOR.
54	1MC	PP (1100)	6	4167	79/06/20.	79/05/10.		MONITOR PARITY ERROR REPORTING.
55	2MC	PP (1100)	67	3366	79/06/20.			
56	2MD	PP (1211)	301	1116	79/06/20.	79/05/10.		1MB - SECONDARY SCR PROCESSOR.
57	CIO	PP (1100)	340	3122	79/07/05.	78/04/10.	79/07/05.	COMBINED INPUT/OUTPUT.
58	0BF	PP (0000)	76	7431	79/06/20.	78/04/10.	79/05/09.	BEGIN FILE.
59	0BP	PP (0000)	515	3215	79/06/20.	78/04/10.	79/05/09.	76/10/06. 0BP - LOAD BANNER PAGE.
60	0OF	PP (0000)	113	1576	79/06/20.	79/05/10.		DROP FILE.
61	0FA	PP (0000)	24	1600	79/06/20.	76/01/11.	79/05/09.	RELEASE FAST ATTACH PERMANENT FILE.
62	0RF	PP (0000)	75	4103	79/06/20.	78/04/10.	79/05/09.	UPDATE RESOURCE FILES.
63	0RP	PP (0000)	72	2530	79/06/20.	79/05/10.		RELEASE PERMANENT FILE.
64	2CA	PP (3234)	62	7623	79/07/05.	78/04/10.	79/07/05.	CIO - IDENTIFY SPECIAL REQUEST.
65	2CB	PP (1605)	121	3172	79/07/05.	78/04/10.	79/07/05.	CIO - READ MASS STORAGE.
66	2CC	PP (2427)	175	6234	79/07/05.	78/04/10.	79/07/05.	CIO - SPECIAL MASS STORAGE READS.
67	2CO	PP (1605)	375	4500	79/07/05.	78/04/10.	79/07/05.	CIO - WRITE MASS STORAGE.
68	2CE	PP (4367)	34	3360	79/07/05.	78/04/10.	79/07/05.	CIO - SPECIAL MASS STORAGE WRITES.
69	2CF	PP (3234)	242	0446	79/07/05.	78/04/10.	79/07/05.	CIO - POSITION MASS STORAGE.
70	2CG	PP (4367)	336	5170	79/07/05.	78/04/10.	79/07/05.	CIO - CLOSE MASS STORAGE.
71	2CH	PP (1605)	20	3007	79/07/05.	78/04/10.	79/07/05.	CIO - TERMINAL INPUT/OUTPUT.
72	2CI	PP (1605)	54	2201	79/07/05.	78/04/10.	79/07/05.	CIO - MAGNETIC TAPE OPERATIONS.
73	2CJ	PP (3234)	53	7262	79/07/05.	78/04/10.	79/07/05.	CIO - MULTI-FILE LABEL PROCESSOR.
74	2CK	PP (4602)	132	4736	79/07/05.	78/04/10.	79/07/05.	CIO - ERROR PROCESSOR.

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	8
75	2CL	PP (4632)	133	3156	79/07/05.	78/04/10.	79/07/05.	CIO - ISSUE DAYFILE MESSAGE.	
76	4DA	PP (3005)	536	0513	79/07/10.	79/05/10.	79/07/10.	MSM - RECOVER PRESERVED FILES.	
77	4DO	PP (4433)	226	1772	79/06/20.	78/01/18.		REC - RECOVER DAYFILES.	
78	4DE	PP (4433)	263	1036	79/06/20.	78/01/18.		REC - ALLOCATE/RECOVER USER ECS.	
79	4DB	PP (3470)	473	5722	79/07/10.	79/05/10.	79/07/10.	MSM - DEVICE RECOVERY ROUTINES.	
80	4DC	PP (5107)	67	5726	79/07/10.	79/05/10.	79/07/10.	MSM - VALIDATE PF SYSTEM.	
81	4DF	PP (5107)	101	1606	79/07/10.	79/05/10.	79/07/10.	MSM - UPDATE MMF TABLES IN ECS.	
82	4DG	PP (5107)	232	4375	79/07/10.	79/05/10.	79/07/10.	MSM - DEVICE RECOVERY ROUTINES.	
83	4DH	PP (5107)	70	0221	79/07/10.	79/05/10.	79/07/10.	MSM - DEVICE INITIALIZATION ROUTINES.	
84	6DE	PP (0556)	41	1300	79/06/20.	79/05/10.		60E - ECS DRIVER.	
85	7DE	PP (7661)	21	0231	79/06/20.	79/05/10.		ECS ERROR PROCESSOR.	
86	6DI	PP (0556)	52	3673	79/06/20.	79/05/10.	79/06/14.	60I - 7155-7X54/885-844 MAIN DRIVER.	
87	7DI	PP (7500)	50	0767	79/06/20.	79/05/10.	79/06/14.	60I - 7155-7X54/885-844 ERROR PROCESSOR.	
88	7WI	PP (7737)	10	1624	79/06/20.	79/05/10.	79/06/14.	60I - 7155-7X54/885-844 WRITE ERROR PROC	
89	7SI	PP (7567)	35	2661	79/06/20.	79/05/10.	79/06/14.	60I - 7155-7X54/885-844 STATUS PROCESSOR	
90	OTI	PP (0000)	64	1667	79/06/20.	79/05/10.	79/06/14.	60I - 7155-7X54/885-844 TRACK FLAW PROCE	
91	OP1	PP (0000)	47	0370	79/06/20.	79/05/10.	79/06/14.	60I - 7155-7X54/885-844 PACK SERIAL PROC	
92	OCI	PP (0000)	43	2313	79/06/20.	79/05/10.	79/06/14.	60I - 7155-7X54/885-844 FIRMWARE IDENT P	
93	7EP	PP (7574)	34	2240	79/06/20.	79/05/10.	79/06/20.	7EP - DISK ERROR PROCESSING.	
94	6MD	PP (0556)	52	3742	79/06/20.	79/05/10.		3553-1/841-N DRIVER.	
95	7MD	PP (7546)	40	7462	79/06/20.	79/05/10.		3553-1/841-N ERROR PROCESSOR.	
96	6DP	PP (0556)	52	4241	79/06/20.	79/05/10.	79/06/14.	DDP/ECS DRIVER.	
97	7DP	PP (7512)	46	7702	79/06/20.	79/05/10.	79/06/14.	DDP/ECS ERROR PROCESSOR.	
98	7MP	PP (7562)	36	3004	79/06/20.	79/05/10.	79/06/14.	DDP/ECS ERROR MESSAGE PROCESSOR.	
99	7RP	PP (7620)	30	2256	79/06/20.	79/05/10.	79/06/14.	DDP/ECS REMAINING BLOCK ERROR PROCESSOR.	
100	7SP	PP (7567)	35	3644	79/06/20.	79/05/10.	79/06/14.	DDP/ECS SINGLE WORD RETRY PROCESSOR.	
101	9AY	PP (6227)	37	4322	79/06/20.	79/05/10.		OSD - N. SYNTAX TABLE - CHARACTERS A-C,	
102	9AZ	PP (6227)	31	0506	79/06/20.	79/05/10.		OSD - N. SYNTAX TABLE - CHARACTERS D-*,	
103	9AO	PP (6227)	17	7016	79/06/20.	79/05/10.		OSD - SYSTEM SYNTAX TABLE - *EN* COMMAND	
104	9AI	PP (6227)	50	4233	79/06/20.	79/05/10.		OSD - SYSTEM SYNTAX TABLE - CHARACTERS B	
105	9AZ	PP (6227)	45	7753	79/06/20.	79/05/10.		OSD - SYSTEM SYNTAX TABLE - CHARACTERS F	
106	9A3	PP (6227)	45	2616	79/06/20.	79/05/10.		OSD - SYSTEM SYNTAX TABLE - CHARACTERS P	
107	9A4	PP (6227)	20	0077	79/06/20.	79/05/10.		OSD - SYSTEM SYNTAX TABLE - CHARACTERS T	
108	9A5	PP (6227)	37	1273	79/06/20.	79/05/10.		OSD - CENTRAL MEMORY CHANGES.	
109	9A6	PP (6227)	51	4153	79/06/20.	79/05/10.		OSD - ECS MEMORY CHANGES.	
110	9A7	PP (6227)	40	4370	79/06/20.	79/05/10.		OSD - CHANNEL COMMANDS.	
111	CVL	PP (1100)	524	1327	79/07/12.	78/04/10.	79/07/12.	COMMON VALIDATION INTERFACE FOR NOS.	
112	SLL	PP (1100)	1043	6024	79/06/20.	79/05/10.		SYSTEM LIBRARY LOADER.	
113	BCL	PP (1421)	167	0207	79/06/20.	79/05/10.		STL - BUFFER CONTROLLER LOADER.	
114	BCS	PPU (00)	3147	4577	79/06/09.	844 FIRMWARE MA710-A13 (52706607) (79/03/9)			
115	BCF	PPU (00)	3147	5672	79/06/09.	844 FIRMWARE MA401-A05 (24616082) (79/03/9)			
116	FMD	PPU (00)	5515	6640	79/06/09.	885 FIRMWARE MA721-A01 (11897303) (79/02/27)			
117	LSL	PP (1414)	71	5102	79/06/20.	79/05/10.		STL - COPY SYSTEM TAPE.	
118	SYSEDIT	ABS	4311	6736	79/06/20.	76/10/24.	79/05/09.	SYSTEM LIBRARY FILE MANAGER.	
	SYSEDIT	4155							
	RFL=	57160							
	SSJ=	236							
119	LIBDECK	TEXT	237	0434					
	LIBDECK								
	*CM	PP/CIO,2CA,2CB,2CC,2CD,2CE,2CF,2CG,2CH,2CI							
	*CM	PP/IAJ,TCS,3AE,3AF,LDR							
	*CM	PP/LOD,LOQ							
	*CM	PP/ICK,1MA,0BF,0DF,0AV,0RP,0FA,0RF							
	*CM	PP/LFM,3LB,3LF,3LG							
	*CM	PP/RPV							
	*CM	PP/LRI,3RH,1RO,3RP,3RQ							

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	9
	*CM	PP/PPM,3PA,3PB,3PD,3PG,3PI,3PK						
	*CM	PP/1TA,3TK,3TJ,1TD,2TO						
	*CM	PP/1MT,3MG,3MH,3ML,3MT						
	*CM	PP/1LS,1DC						
	*CM	PP/1TD,1SJ,1SP,QAC,3QS						
	*CM	PP/1DL,9A1,9A5,9A6,9A7			(DSD RELATED)			
	*CM	DVL/LDC						
	*PROC	LIBMOD,GENVAL,GENHELP,MOVEPF						
	*FL	ABS/FTN-6410,ABS/BASIC-6250,ABS/CDCS2-6565,ABS/DDLF-6540						
	*FL	ABS/NVF-42,ABS/DDL3-6540,ABS/PLI-6600,ABS/DML-6540						
	*FL	ABS/FILE-6030,ABS/ALGOL-6500,ABS/ALGEDIT-6400,ABS/COBOL-6630						
	*FL	ABS/CDPYCL-6370,ABS/CDBDL5-6600,ABS/SIFT-6410,ABS/DDL-6540						
	*FL	ABS/ESTMATE-6370,ABS/SISTAT-6210,ABS/IXGEN-6650,ABS/DFRCV-6650						
	*FL	ABS/COPY8P-6200,ABS/SDRTHRG-6600,ABS/QU-6600,ABS/REPORT-6420						
	*FL	ABS/ALGDL5-6450,F45-6600,F1N5-6520,CDCSBTF-6515						
	*FL	ABS/PMOMP-6410						
	*SC	ABS/REPORT,QUMIP,DDLF,DML,F45						
	*SC	ABS/COMPASS,FILE,SYNPL,CDBDL5,F1N5						
	*SC	ABS/UPDATE,COPYL,ITEMIZE,DFRCV,DFRST						
	*SC	ABS/ALGDL,CDBDL,F1N5,SIMULA,SDRTHRG						
	*SC	ABS/NDA,NOLP,LFG,REPORTR,SCRIPT,STIM,DLFP						
	*SC	ABS/COPY8P,QU,DDL,BASIC						
	*SC	ABS/ESTMATE,SISTAT,IXGEN,ALGOL5						
	*SC	DVL/RUN						
	*SC	ABS/DDL3						
	*SC	ABS/CDCS2,DBMSTRD,DBRCVR,DBQFRA,DBQRFI,CDCSBTF						
120	LIBDCK1 TEXT	315	5547					
	LIBDCK1							
	*CM	PP/1DC						
	*CM	PP/CIO,1AJ,ODF						
	*CM	PP/9A1,9A5,9A6,9A7 (DSD RELATED)						
	*CM	PP/3MB (TAPE ERROR RECOVERY)						
	*AD	11,PP/1DL						
	*AD	11,PP/ORF,OFA,ORP,ORF,0AV,0AU						
	*AD	11,PP/QAC,3QS						
	*AD	11,PP/1CJ,1CK,TCS,LDR,1MA,2MA,3AA,3AB,3AD,3AE,3AF,3AG						
	*AD	11,PP/LDD,LDD						
	*AD	11,PP/2CA,2CB,2CC,2CD,2CE,2CF,2CG,2CH,2CI						
	*AD	11,PP/1RI,3RG,3RH,3RI,1RU,3RP,3RQ						
	*AD	11,PP/LFM,3LB,3LF,3LG						
	*AD	11,PP/PPM,3PA,3PB,3PD,3PE,3PG,3PH,3PI,3PK						
	*AD	11,PP/RPV,CPM,3CA,3CB,3CC						
	*AD	11,PP/1TA,3TC,3TD,3TE,3TK,3TF,3TJ,TLX,1TD,2TO						
	*AD	11,PP/1MT,3MG,3MH,3MI,3ML,3MN,3MT						
	*AD	11,PP/1TD,1SJ,1SP						
	*AD	11,PP/1LS						
	*AD	11,ABS/FILES,PF1LES,CATLIST,CTL2,CTL3,EDIT,RESEX						
	*AD	11,ABS/ACCFAM,MODIFY,LOADER,CHARGE,COPYB,RWF						
	*AD	11,DVL/LDC						
	*AD	11,ABS/COMPASS						
	*AD	11,DVL/COMP3\$,COMP3\$A,MSORT						
	*PROC	LIBMOD,GENVAL,GENHELP,MOVEPF						
	*FL	ABS/FTN-6410,ABS/BASIC-6250,ABS/CDCS2-6565,ABS/DDLF-6540						
	*FL	ABS/NVF-42,ABS/DDL3-6540,ABS/PLI-6600,ABS/DML-6540						
	*FL	ABS/FILE-6030,ABS/ALGOL-6500,ABS/ALGEDIT-6400,ABS/COBOL-6630						

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*FL ABS/COPYCL-6370,ABS/C080L5-6600,ABS/SIFT-6410,ABS/DOL-6540
*FL ABS/ESTMATE-6370,ABS/S1STAT-6210,ABS/IXGEN-6650,ABS/DFRCV-6650
*FL ABS/COPY8P-6200,ABS/SORTMRG-6600,ABS/QU-6600,ABS/REPORT-6420
*FL ABS/ALGOL5-6450,F45-6600,FTN5-6520,C0CSBTF-6515
*FL ABS/PMOMP-6410
*SC ABS/REPORT,QUIMP,F45
*SC ABS/DDLF,OML
*SC ABS/COMPASS,FILE,SYML,CUBOL5,FTN5
*SC ABS/UPDATE,COPYL,ITEMIZE,DFRCV,DFRST
*SC ABS/ALGOL,C0BOL,FTN,SIMULA,SORTMRG
*SC ABS/COPY8P,QU,DDL,BASIC
*SC ABS/NDA,NLDP,LFG,REPORTR,SCRIPT,STIM,OLFP
*SC ABS/ESTMATE,S1STAT,IXGEN,ALGOL5
*SC OVL/RUN
*SC ABS/DDL3
*SC ABS/C0CS2,0BMSTRD,DBRCVR,0BQRF A,0BQRF I,C0CSBTF

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121 (00) SUM = 63446 LIBRARY = 2

122	1AJ	PP (1100)	140	1030	79/06/20.	78/04/10.	79/05/09.	ADVANCE JOB STATUS.
123	LDR	PP (1100)	65	0362	79/06/20.	78/04/10.	79/05/09.	1AJ - LOAD CENTRAL PROGRAM.
124	TCS	PP (1100)	1043	5576	79/06/20.	78/04/10.	79/05/09.	1AJ - TRANSLATE CONTROL STATEMENT.
125	3AA	PP (1654)	403	0270	79/06/20.	78/04/10.	79/05/09.	1AJ - BEGIN JOB.
126	3AB	PP (1654)	626	3446	79/06/20.	78/04/10.	79/05/09.	1AJ - PROCESS ERROR FLAG.
127	3AC	PP (4642)	24	4702	79/06/20.	78/04/10.	79/05/09.	1AJ - SEARCH PERIPHERAL LIBRARY.
128	3AD	PP (1506)	77	2571	79/06/20.	78/04/10.	79/05/09.	1AJ - SEARCH FOR OVERLAY.
129	3AE	PP (4642)	303	3017	79/06/20.	78/04/10.	79/05/09.	1AJ - LOAD COPY ROUTINES.
130	3AF	PP (5063)	165	0121	79/06/20.	78/04/10.	79/05/09.	1AJ - SPECIAL ENTRY POINT PROCESSING.
131	3AG	PP (1654)	236	0055	79/06/20.	78/04/10.	79/05/09.	1AJ - SEND RESPONSE TO SUBSYSTEM.
132	3AH	PP (5063)	12	1572	79/06/20.	78/04/10.	79/05/09.	1AJ - RETURN SPECIAL USER FILES.
133	1CJ	PP (1100)	637	2103	79/06/20.	78/04/10.	79/05/09.	COMPLETE JOB.
134	1RI	PP (1100)	355	0646	79/06/20.	78/04/10.	79/05/09.	ROLLIN JOB.
135	3RG	PP (5443)	105	5541	79/06/20.	78/04/10.	79/05/09.	1RI - PROCESS SPECIAL ENTRY POINT JOBS.
136	3RF	PP (5443)	107	6540	79/06/20.	78/04/10.	79/05/09.	1RI - PROCESS TERMINATION ERRORS.
137	3RH	PP (5443)	244	3553	79/06/20.	78/04/10.	79/05/09.	1RI - PROCESS TXOT JOBS.
138	3RI	PP (5443)	14	7307	79/06/20.	78/04/10.	79/05/09.	1RI - NOTIFY SUBSYSTEM OF ROLLIN.
139	1RO	PP (1100)	470	7125	79/06/20.	78/04/10.	79/06/14.	ROLLOUT JOB.
140	3RP	PP (4411)	403	2354	79/06/20.	78/04/10.	79/06/14.	1RO - PROCESS TXOT JOBS.
141	3RQ	PP (4411)	43	0630	79/06/20.	78/04/10.	79/06/14.	1RO - PROCESS MTOT JOBS.
142	1RP	PP (1100)	33	5653	79/06/20.	79/05/10.	79/06/20.	PPR - RELOAD PP RESIDENT.
143	7SE	PP (7662)	21	6043	79/06/20.	79/05/10.	79/06/20.	PPR - PROCESS SYSTEM DEVICE ERROR.
144	1SI	PP (1100)	161	3100	79/06/20.	79/05/10.		1SI - SUBSYSTEM INITIALIZER.
145	1SJ	PP (1100)	351	4146	79/06/20.	78/04/10.	79/05/09.	JOB SCHEDULER.
146	3SA	PP (3715)	75	2415	79/06/20.	78/04/10.	79/05/09.	1SJ - INITIATE SUB-SYSTEMS.
147	1SP	PP (1100)	334	1734	79/06/20.	78/04/10.	79/05/09.	EVALUATE PRIORITIES.
148	(00)	SUM =	10111	LIBRARY =			3	

149	1DL	PP (1100)	100	4034	79/06/20.	76/10/24.	79/05/09.	DISLAY OVERLAY LOADER.
150	1DS	PP (1100)	1244	4512	79/06/20.	79/05/10.		OSD REQUEST PROCESSOR.
151	9AA	PP (0000)	43	0567	79/06/20.	79/05/10.		OSD - DISPLAY A - DAYFILE MESSAGES.
152	9AB	PP (0000)	57	1036	79/06/20.	79/05/10.		OSD - DISPLAY B - SYSTEM STATUS.
153	9AC	PP (0000)	20	0725	79/06/20.	79/05/10.		OSD - DISPLAYS F, G - CENTRAL MEMORY.
154	9AD	PP (0000)	100	0442	79/06/20.	79/05/10.		OSD - DISPLAY E - EQUIPMENT STATUS TABLE
155	9AE	PP (0000)	60	3371	79/06/20.	79/05/10.		OSD - DISPLAY E - MASS STORAGE CONFIGURA
156	9AF	PP (0000)	70	6606	79/06/20.	79/05/10.		OSD - DISPLAY E - MASS STORAGE STATUS.
157	9AG	PP (0000)	100	3741	79/06/20.	79/05/10.		OSD - DISPLAY E - RESOURCE MOUNTING PREV

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	11
158	9AH	PP (0000)	77	3667	79/06/20.	79/05/10.	DSD - DISPLAY E - MAGNETIC TAPES.		
159	9AI	PP (0000)	76	2434	79/06/20.	79/05/10.	DSD - DISPLAY H - FILE NAME TABLE.		
160	9AJ	PP (0000)	63	2723	79/06/20.	79/05/10.	DSD - DISPLAY I - BATCHIO STATUS.		
161	9AK	PP (0000)	62	2701	79/06/20.	79/05/10.	DSD - DISPLAY J - CONTROL POINT STATUS.		
162	9AL	PP (0000)	46	7357	79/06/20.	79/05/10.	DSD - DISPLAY K - CENTRAL PROGRAM BUFFER		
163	9AM	PP (0000)	47	4545	79/06/20.	79/05/10.	DSD - DISPLAY M - ECS MEMORY DISPLAY.		
164	9AN	PP (0000)	31	3356	79/06/20.	79/05/10.	DSD - DISPLAY N - FILE DISPLAY.		
165	9AO	PP (0000)	63	3071	79/06/20.	79/05/10.	DSD - DISPLAY O - TRANSACTION TERMINAL S		
166	9AP	PP (0000)	46	4350	79/06/20.	79/05/10.	DSD - DISPLAY O - SUB CONTROL POINT STAT		
167	9AQ	PP (0000)	75	4252	79/06/20.	79/05/10.	DSD - DISPLAY O - TASK LIBRARY DIRECTORY		
168	9AR	PP (0000)	64	0405	79/06/20.	79/05/10.	DSD - DISPLAY P - PP REGISTERS.		
169	9AS	PP (0000)	44	4303	79/06/20.	79/05/10.	DSD - DISPLAY Q - INPUT/OUTPUT/ROLLOUT Q		
170	9AT	PP (0000)	75	2506	79/06/20.	79/05/10.	DSD - DISPLAY R - REMOTE BATCH STATUS.		
171	9AU	PP (0000)	73	6641	79/06/20.	79/05/10.	DSD - DISPLAY S - SYSTEM CONTROL INFORMA		
172	9AV	PP (0000)	76	0040	79/06/20.	79/05/10.	DSD - DISPLAY T - TIME SHARING STATUS.		
173	9AW	PP (0000)	47	4232	79/06/20.	79/05/10.	DSD - DISPLAY Y - MONITOR FUNCTIONS.		
174	9AX	PP (0000)	73	5352	79/06/20.	79/05/10.	DSD - DISPLAY Z - DIRECTORY.		
175	9AB	PP (6227)	41	3175	79/06/20.	79/05/10.	DSD - SEND DAYFILE MESSAGES.		
176	9AB	PP (6227)	24	6170	79/06/20.	79/05/10.	DSD - CONTROL POINT REQUESTS.		
177	9BA	PP (6227)	36	5423	79/06/20.	79/05/10.	DSD - CONTINUATION OF CONTROL POINT REQU		
178	9BB	PP (6227)	45	6556	79/06/20.	79/05/10.	DSD - SUBSYSTEM REQUESTS.		
179	9BC	PP (6227)	33	5330	79/06/20.	79/05/10.	DSD - TELEX MESSAGE REQUESTS.		
180	9BD	PP (6227)	42	3045	79/06/20.	79/05/10.	DSD - BATCHIO REQUESTS.		
181	9BE	PP (6227)	50	4761	79/06/20.	79/05/10.	DSD - SYSTEM REQUESTS.		
182	9BF	PP (6227)	33	7547	79/06/20.	79/05/10.	DSD - SYSTEM REQUESTS.		
183	9BG	PP (6227)	14	3746	79/06/20.	79/05/10.	DSD - JOB CALL REQUESTS.		
184	9BH	PP (6227)	23	5264	79/06/20.	79/05/10.	DSD - SYSTEM CONTROL REQUESTS.		
185	9BI	PP (6227)	35	3634	79/06/20.	79/05/10.	DSD - ENABLE SYNTAX TABLE - CHARACTERS A		
186	9BJ	PP (6227)	32	5525	79/06/20.	79/05/10.	DSD - ENABLE SYNTAX TABLE - CHARACTERS O		
187	9BK	PP (6227)	36	2473	79/06/20.	79/05/10.	DSD - DISABLE SYNTAX TABLE - CHARACTERS		
188	9BL	PP (6227)	33	4352	79/06/20.	79/05/10.	DSD - DISABLE SYNTAX TABLE - CHARACTERS		
189	9BM	PP (6227)	32	7667	79/06/20.	79/05/10.	DSD - ENABLE/DISABLE REQUESTS.		
190	9BN	PP (6227)	26	1325	79/06/20.	79/05/10.	DSD - JOB CONTROL REQUESTS.		
191	9BO	PP (6227)	30	5635	79/06/20.	79/05/10.	DSD - JOB CONTROL REQUESTS.		
192	9BP	PP (6227)	42	4143	79/06/20.	79/05/10.	DSD - JOB CONTROL REQUESTS.		
193	9BQ	PP (6227)	52	6113	79/06/20.	79/05/10.	DSD - DISPLAY CHANGE REQUESTS.		
194	9BR	PP (6227)	41	0146	79/06/20.	79/05/10.	DSD - FILE CONTROL REQUESTS.		
195	9BS	PP (6227)	15	7137	79/06/20.	79/05/10.	DSD - FILE CONTROL REQUESTS.		
196	9BT	PP (6227)	43	2477	79/06/20.	79/05/10.	DSD - RESOURCE CONTROL COMMANDS.		
197	9BU	PP (6227)	33	4727	79/06/20.	79/05/10.	DSD - ASSIGN VSN TO UNIT.		
198	9BV	PP (6227)	36	4315	79/06/20.	79/05/10.	DSD - MAINTENANCE COMMANDS.		
199	9BW	PP (6227)	31	7135	79/06/20.	79/05/10.	DSD - EQUIPMENT AVAILABILITY COMMANDS.		
200	9BX	PP (6227)	44	1412	79/06/20.	79/05/10.	DSD - MASS STORAGE VALIDATION.		
201	9BY	PP (6227)	33	7375	79/06/20.	79/05/10.	DSD - ENTER TIME.		
202	9BZ	PP (6227)	46	7360	79/06/20.	79/05/10.	DSD - ENTER DATE.		
203	DIS	PP (1100)	1300	7542	79/06/20.	76/01/11. 79/05/09.	JOB DISPLAY.		
204	9EA	PP (7006)	37	7035	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY A. - DAYFILE.		
205	9EB	PP (7006)	60	1142	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY E. - MAGNETIC TAPES.		
206	9EC	PP (7006)	16	5461	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY F. - CENTRAL MEMORY 4 GROU		
207	9ED	PP (7006)	71	7213	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY G. - CH, 4 GROUPS OF 5.		
208	9EE	PP (7006)	24	3265	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY H. - FILE NAME TABLE.		
209	9EF	PP (7006)	43	3451	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY J. - SYSTEM STATUS.		
210	9EG	PP (7006)	50	4370	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY K. - EQUIPMENT STATUS TABL		
211	9EH	PP (7006)	57	4414	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY L. - FILE NAME TABLE.		
212	9EI	PP (7006)	46	1475	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY M - ECS MEMORY DISPLAY.		
213	9EJ	PP (7006)	56	3753	79/06/20.	76/01/11. 79/05/09.	DIS - DISPLAY P. - PP REGISTERS.		

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214	9EK	PP (7006)	42	3604	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY Q. - INPUT/OUTPUT/ROLLOUT
215	9EL	PP (7006)	26	4314	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY V. - CENTRAL MEMORY BUFFER
216	9EM	PP (7006)	46	2133	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY Y. - MONITDR FUNCTIONS.
217	9EN	PP (7006)	67	0335	79/06/20.	76/01/11.	79/05/09.	DIS	- DISPLAY Z. - DIRECTORY.
218	9EO	PP (7443)	25	7351	79/06/20.	76/01/11.	79/05/09.	DIS	- CPU COMMANDS.
219	9EP	PP (7443)	34	4466	79/06/20.	76/01/11.	79/05/09.	DIS	- STATEMENT ENTRY.
220	9EQ	PP (7443)	31	2712	79/06/20.	76/01/11.	79/05/09.	DIS	- EXECUTE STATEMENTS.
221	9ER	PP (7443)	30	1544	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER REGISTER.
222	9ES	PP (7443)	30	3607	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER X REGISTER.
223	9ET	PP (7443)	36	2347	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER MEMDRY.
224	9EU	PP (7443)	33	6542	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER INSTRUCTION.
225	9EV	PP (7443)	35	4301	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER ECS.
226	9EW	PP (7443)	17	7551	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER MEMDRY/ENTER INSTRUCTION EXI
227	9EX	PP (7443)	23	7172	79/06/20.	76/01/11.	79/05/09.	DIS	- CPU PROGRAM INTERFACE COMMANDS.
228	9EY	PP (7443)	35	1333	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER FIELD LENGTH.
229	9EZ	PP (7443)	37	0230	79/06/20.	76/01/11.	79/05/09.	DIS	- ENTER ECS FIELD LENGTH.
230	9EO	PP (7443)	34	6164	79/06/20.	76/01/11.	79/05/09.	DIS	- CALL D26 TO CONTROL POINT.
231	9E1	PP (7443)	20	3374	79/06/20.	76/01/11.	79/05/09.	DIS	- MISCELLANEDUS COMMANDS.
232	9E2	PP (7443)	34	2532	79/06/20.	76/01/11.	79/05/09.	DIS	- MISCELLANEDUS COMMANDS.
233	9E3	PP (7443)	25	0306	79/06/20.	76/01/11.	79/05/09.	DIS	- INTERPRET KEYSET MESSAGE.
234	9E4	PP (7443)	22	6615	79/06/20.	76/01/11.	79/05/09.	DIS	- CHECK KEYBOARD REQUEST.
235	9FA	PP (7443)	24	5105	79/06/20.	76/01/11.	79/05/09.	DIS	- INTERPRET MORE MESSAGES.
236	9FB	PP (7443)	20	7762	79/06/20.	76/01/11.	79/05/09.	DIS	- CALL PPU PROGRAM.
237	026	PP (1100)	1277	4214	79/06/20.	78/04/10.	79/05/09.	CONSOLE	TEXT EDITOR.
238	9GA	PP (6343)	65	2550	79/06/20.	78/04/10.	79/05/09.	026	- FILE COMMANDS.
239	9GB	PP (6343)	67	3375	79/06/20.	78/04/10.	79/05/09.	026	- LINE ENTRY AND DATA MOVE.
240	9GC	PP (6343)	63	1007	79/06/20.	78/04/10.	79/05/09.	026	- DISPLAY, TAB, DUP AND SCAN CONTROL
241	9GD	PP (6343)	52	3162	79/06/20.	78/04/10.	79/05/09.	026	- LINE SEARCH COMMANDS.
242	9GE	PP (6343)	11	4224	79/06/20.	78/04/10.	79/05/09.	026	- SEQUENTIAL RECORD SEARCH COMMANDS.
243	9GF	PP (6343)	73	0770	79/06/20.	78/04/10.	79/05/09.	026	- RANDOM RECORD SEARCH COMMANDS.
244	9GG	PP (6343)	65	6267	79/06/20.	78/04/10.	79/05/09.	026	- REPLACE COMMANDS.
245	9GH	PP (6343)	7	6451	79/06/20.	78/04/10.	79/05/09.	026	- REWRITE RECORD IN PLACE.
246	9GI	PP (6343)	62	0064	79/06/20.	78/04/10.	79/05/09.	026	- MISCELLANEDUS COMMANDS.
247	(00)	SUM =	12547	LIBRARY =	4				
248	PFILES	ABS	1405	2254	79/06/20.	76/10/27.	79/05/09.		PERMANENT FILE MANIPULATOR.
	APPEND	353							
	ATTACH	377							
	CHANGE	431							
	DEFINE	461							
	GET	510							
	NEW	540							
	OLD	551							
	PACKNAM	557							
	PERMIT	574							
	PURGE	621							
	REPLACE	643							
	SAVE	667							
	RFL-	1665							
	SDM-	0							
249	PFATC1	0VL 01,00	2200	0562	79/06/20.	73/05/24.	79/05/09.	PFATC1	- CATALOG PF ARCHIVE TAPE.
250	PFCAT1	0VL 01,00	4427	7545	79/07/12.	78/04/10.	79/07/12.	PFCAT1	- CATALOG PERMANENT FILE DEVICE.
251	PFCOPY1	0VL 01,00	2301	1261	79/07/10.	73/05/24.	79/07/10.	PFCOPY1	- COPY ARCHIVE FILE UTILITY.
252	PFDUMP1	0VL 01,00	5545	7641	79/07/12.	78/04/10.	79/07/12.	PFDUMP1	- PERMANENT FILE DUMP.
253	PFLDAD1	0VL 01,00	6153	3255	79/07/12.	78/04/10.	79/07/12.	PFLDAD1	- PERMANENT FILE LOAD.

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254	PFS	ABS	2412	4373	79/06/20.	73/05/24. 78/04/09.	PERMANENT FILE SUPERVISOR.		
	PFS	1336							
	PFLOAD	1651							
	PFDUMP	1653							
	PFCAT	1654							
	PFATC	1655							
	PFCOPY	1656							
	RFL=	2502							
	SSJ=	155							
255	PURGALL	ABS	661	7727	79/06/20.	73/05/05. 78/04/09.	PURGE ALL PERMANENT FILES.		
	PURGALL	147							
	RFL=	1517							
256	CMS	PP (1212)	451	0756	79/07/10.	79/05/10. 79/07/10.	MSM - ON LINE MASS STORAGE MANAGER.		
257	ELM	PP (1100)	117	6165	79/06/20.	78/04/10.	ERROR LOG MESSAGE PROCESSOR.		
258	IMS	PP (1100)	1126	0114	79/06/20.	78/04/10. 79/06/14.	INITIALIZE MASS STORAGE.		
259	RDM	PP (1100)	406	4705	79/06/20.	78/04/10. 79/05/09.	RDM - REDEFINE MASS STORAGE.		
260	IIS	PP (1100)	356	1304	79/06/20.	79/05/10.	INSTALL DEADSTART FILE.		
261	CONFIG	ABS	2243	4573	79/06/20.	78/04/10.	CONFIGURE MASS STORAGE.		
	CONFIG	126							
	RFL=	3516							
262	INSTALL	ABS	357	7776	79/06/20.	79/05/10.	INSTALL DEADSTART FILE.		
	INSTALL	136							
	RFL=	10530							
	SSJ=	125							
263	MSI	ABS	3635	2363	79/06/20.	78/04/10. 79/06/14.	MASS STORAGE DEVICE INITIALIZATION.		
	MSI	327							
	FLAW	515							
	RFL=	6260							
	SSJ=	3726							
264	PFM	PP (1100)	710	1366	79/07/03.	79/05/10. 79/07/03.	PFM - PERMANENT FILE MANAGER.		
265	3PA	PP (1606)	661	6030	79/07/03.	79/05/10. 79/07/03.	PFM - GET PROCESSING AND RESIDENT ROUTIN		
266	3PB	PP (4664)	106	6374	79/07/03.	79/05/10. 79/07/03.	PFM - SAVE/REPLACE PROCESSING.		
267	3PC	PP (4664)	106	2023	79/07/03.	79/05/10. 79/07/03.	PFM - APPEND PROCESSING.		
268	3PD	PP (4664)	220	2633	79/07/03.	79/05/10. 79/07/03.	PFM - ATTACH/UATTACH PROCESSING.		
269	3PE	PP (1504)	420	2056	79/07/03.	79/05/10. 79/07/03.	PFM - CATLIST PROCESSING.		
270	3PF	PP (4664)	164	3013	79/07/03.	79/05/10. 79/07/03.	PFM - DEFINE/SETDA PROCESSING.		
271	3PG	PP (4664)	201	6037	79/07/03.	79/05/10. 79/07/03.	PFM - PERMIT/PURGE/DROPDS PROCESSING.		
272	3PH	PP (1504)	540	5511	79/07/03.	79/05/10. 79/07/03.	PFM - ERROR PROCESSING.		
273	3PI	PP (1622)	172	0562	79/07/03.	79/05/10. 79/07/03.	PFM - LOCAL FILE PROCESSING.		
274	3PJ	PP (4664)	77	4121	79/07/03.	79/05/10. 79/07/03.	PFM - CHANGE PROCESSING.		
275	3PK	PP (1700)	106	0074	79/07/03.	79/05/10. 79/07/03.	PFM - DEVICE TO DEVICE TRANSFER.		
276	3PL	PP (2402)	76	0456	79/07/03.	79/05/10. 79/07/03.	PFM - APPEND - ORIGINAL FILE TRANSFER.		
277	3PM	PP (1622)	125	1622	79/07/03.	79/05/10. 79/07/03.	PFM - FILE RESIDENCE PROCESSING.		
278	3PN	PP (4664)	56	1065	79/07/03.	79/05/10. 79/07/03.	PFM - MSS ATTACH PROCESSING.		
279	3PO	PP (6776)	62	1552	79/07/03.	79/05/10. 79/07/03.	PFM - ATTACH/UATTACH PRESET - READ CATAL		
280	3PP	PP (4664)	107	6317	79/07/03.	79/05/10. 79/07/03.	PFM - SETASA/SETAF PROCESSING.		
281	PFU	PP (1100)	733	7107	79/07/10.	78/04/10. 79/07/10.	PFU - PERMANENT FILE UTILITY PROCESSOR.		
282	3FA	PP (3152)	512	7222	79/07/10.	78/04/10. 79/07/10.	PFU - PFLOAD ROUTINES.		
283	3FB	PP (3152)	105	7151	79/07/10.	78/04/10. 79/07/10.	PFU - ERROR PROCESSOR.		
284	1CK	PP (1100)	176	3306	79/06/20.	79/05/10.	SYSTEM CHECK POINT.		
285	3CK	PP (2156)	242	1722	79/06/20.	79/05/10.	1CK - SYSTEM CHECK POINT.		
286	5ME	PP (7003)	36	4165	79/06/20.	78/04/10.	MS VALIDATION ERROR PROCESSOR.		
287	(00)	SUM =	52664	LIBRARY =	5				
288	CPM	PP (1100)	515	4266	79/06/20.	78/04/10. 79/05/09.	CONTROL POINT MANAGER.		
289	3CA	PP (1615)	265	6401	79/06/20.	78/04/10. 79/05/09.	CPM - USER VALIDATION FUNCTIONS.		

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290	3CB	PP (11615)	275	4751	79/06/20.	78/04/10.	79/05/09.	CPM - USER ACCOUNTING FUNCTIONS.	
291	3CC	PP (11615)	60	2120	79/06/20.	78/04/10.	79/05/09.	CPM - LOADER/MISCELLANEOUS FUNCTIONS.	
292	EXU	PP (11100)	126	4227	79/06/20.	70/12/20.	79/05/09.	EXECUTE *COS* FORMAT PROGRAM.	
293	LDD	PP (11100)	425	7431	79/06/20.	78/01/13.		LDD - LOAD FAST DYNAMIC LOAD DIRECTORIES	
294	LDQ	PP (11100)	167	6466	79/06/20.	78/01/13.		LDQ - LOAD QUICKLY.	
295	2LD	PP (11100)	56	6717	79/06/20.	78/01/13.		LDD/LOQ - ERROR PROCESSOR.	
296	LFM	PP (11100)	274	0125	79/06/20.	78/04/10.	79/05/09.	LOCAL FILE MANAGER.	
297	3LA	PP (17611)	104	3336	79/06/20.	78/04/10.	79/05/09.	LFM - ERROR PROCESSOR.	
298	3LB	PP (17611)	267	2524	79/06/20.	78/04/10.	79/05/09.	LFM - LOCAL FILE FUNCTIONS.	
299	3LC	PP (17611)	266	2040	79/06/20.	78/04/10.	79/05/09.	LFM - EQUIPMENT REQUESTS.	
300	3LD	PP (17611)	100	2754	79/06/20.	78/04/10.	79/05/09.	LFM - COMMON FILE FUNCTIONS.	
301	3LE	PP (17611)	360	1701	79/06/20.	78/04/10.	79/05/09.	LFM - FILE DISPOSAL FUNCTIONS.	
302	3LF	PP (17611)	201	0054	79/06/20.	78/04/10.	79/05/09.	LFM - CONTROL STATEMENT FILE FUNCTIONS.	
303	3LG	PP (17611)	150	1424	79/06/20.	78/04/10.	79/05/09.	LFM - GETFNT AND PRIMARY FUNCTIONS.	
304	SFM	PP (11100)	1004	7431	79/06/20.	76/01/11.	79/05/09.	SYSTEM FILE MANAGER.	
305	3SZ	PP (3070)	347	5040	79/06/20.	76/01/11.	79/05/09.	SFM - FAST ATTACH PROCESSORS.	
306	SFP	PP (11100)	31	4605	79/06/20.	78/04/10.	79/05/09.	SCOPE FUNCTION PROCESSOR.	
307	2SA	PP (11143)	172	6314	79/06/20.	78/04/10.	79/05/09.	SFP - STS - STATUS PROCESSOR..	
308	2SB	PP (11143)	764	2072	79/06/20.	78/04/10.	79/05/09.	SFP - MSD - SOA/SIS MESSAGE GENERATOR..	
309	2SC	PP (11143)	57	1105	79/06/20.	78/04/10.	79/05/09.	SFP - PFE - EXTEND/ALTER FUNCTION..	
310	2SD	PP (11143)	111	4603	79/06/20.	78/04/10.	79/05/09.	SFP - ACE - ADVANCE CONTROL CARD..	
311	2SE	PP (11143)	22	2425	79/06/20.	78/04/10.	79/05/09.	SFP - PRM - PERMISSION CHECKING FUNCTION	
312	2SF	PP (11143)	16	2013	79/06/20.	78/04/10.	79/05/09.	SFP - SRP - SPECIAL REQUEST PROCESSING..	
313	2SG	PP (11143)	100	6657	79/06/20.	78/04/10.	79/05/09.	SFP - ERP - ERROR PROCESSOR..	
314	2SH	PP (11143)	170	6450	79/06/20.	78/04/10.	79/05/09.	SFP - OOO - EXTRACT ERROR TEXT..	
315	2SI	PP (11143)	11	5120	79/06/20.	78/04/10.	79/05/09.	SFP - FIN - FILE INFORMATION REQUEST..	
316	RPV	PP (11100)	277	2123	79/06/20.	78/04/10.	79/05/09.	REPRIEVE CENTRAL PROGRAM.	
317	2RP	PP (11100)	42	0052	79/06/20.	78/04/10.	79/05/09.	RPV - ERROR PROCESSOR.	
318	(00)	SUM =	10461	LIBRARY =	6				
319	ACCFAM	ABS	422	2374	79/06/20.	78/04/10.		USER AND FAMILY CARD PROCESSOR.	
	ACCOUNT	111							
	FAMILY	224							
	USER	111							
	VAL=	0							
	SOM=	0							
	RFL=	523							
	SSJ=	252							
320	CHARGE	ABS	2042	1526	79/06/20.	76/10/27.	78/10/06.	JOB PROFILE VALIDATION PROGRAM.	
	CHARGE	1213							
	ARG=	0							
	VAL=	0							
	RFL=	2144							
	SSJ=	1014							
321	ISF	ABS	1216	2357	79/06/20.	79/05/10.		INITIALIZE SYSTEM FILES.	
	ISF	132							
	RFL=	2137							
	SSJ=	125							
322	MODVAL	ABS	13555	1313	79/06/20.	76/01/11.	79/05/09.	USER VALIDATION FILE MANAGER.	
	MODVAL	14567							
	LIMITS	14551							
	PASSWOR	14560							
	SOM=	0							
	RFL=	17673							
	SSJ=	14372							

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323	PROFILE	ABS	7013	6457	79/06/20.	76/09/21.	79/05/09. PROJECT PROFILE MANAGER.		
	PROFILE	10375							
	ARG=	10375							
	RFL=	13614							
	SSJ=	2516							
324	SFS	OVL 01,00	1724	7604	79/06/20.	73/05/24.	79/05/09. SPECIAL SYSTEM FILE SUPERVISOR.		
325	OAV	PP (0000)	173	7537	79/06/20.	76/10/24.	79/05/09. VERIFY USER ACCOUNT NUMBER.		
326	0AU	PP (0000)	75	1535	79/06/20.	76/10/24.	79/05/09. UPOATE PROJECT PROFILE FILE.		
327	OVJ	PP (0000)	275	2500	79/06/20.	79/05/10.	VERIFY JOB/USER STATMENT.		
328	(00)	SUM =	31203	LIBRARY =	7				
329	VEJ	PP (1100)	214	5325	79/06/20.	76/10/24.	79/05/09. VEJ - VERIFY JOB FILE INFORMATION.		
330	QAC	PP (1100)	362	2101	79/06/20.	78/04/10.	79/05/09. QAC - QUEUE ACCESS.		
331	3QR	PP (6000)	36	0250	79/06/20.	78/01/30.	QAC - ERROR PROCESSOR.		
332	3QS	PP (3370)	66	2343	79/06/20.	78/01/30.	QAC - ATTACH QUEUED FILE.		
333	3QT	PP (3370)	220	4767	79/06/20.	78/01/30.	QAC - ALTER QUEUED FILE.		
334	3QU	PP (3370)	161	5512	79/06/20.	78/01/30.	QAC - PEEK/COUNT QUEUED FILES.		
335	DSP	PP (1100)	1010	2115	79/06/20.	76/10/24.	79/06/14. DSP - DISPOSE FILE TO I/O QUEUE.		
336	30A	PP (1453)	173	4472	79/06/20.	76/10/24.	79/06/14. DSP - ERROR PROCESSOR.		
337	QAP	PP (1100)	366	2154	79/06/20.	78/01/18.	QUEUE AUXILLARY PROCESSOR.		
338	3BA	PP (3274)	120	3346	79/06/20.	78/01/18.	QAP - ACCOUNTING.		
339	3BB	PP (3274)	113	1571	79/06/20.	78/01/18.	QAP - LOAD PRINTER PFC IMAGE MEMORY.		
340	3BC	PP (3274)	137	1411	79/06/20.	78/01/18.	QAP - GENERATE LACE CARD.		
341	3BD	PP (3274)	54	6547	79/06/20.	78/01/18.	QAP - PROCESS OPERATOR REQUEST.		
342	3DE	PP (3274)	43	3431	79/06/20.	78/01/18.	QAP - CHANNEL ERROR CLEANUP.		
343	3BF	PP (4056)	142	1604	79/06/20.	78/01/18.	QAP - RELOAD 580 PFC MEMORY.		
344	5BA	PP (6767)	42	2317	79/06/20.	78/01/18.	QAP - 580 PFC IMAGE ARRAY.		
345	5BB	PP (6767)	42	0231	79/06/20.	78/01/18.	QAP - 580 PFC IMAGE ARRAY.		
346	1CO	PP (1100)	1103	7240	79/06/20.	78/01/18.	BATCHIO COMBINED DRIVER.		
347	110	PP (1100)	230	7657	79/06/20.	79/05/10.	BATCHIO MANAGER.		
348	31A	PP (2534)	140	7025	79/06/20.	79/05/10.	110 - SUBROUTINES.		
349	31B	PP (3753)	43	6623	79/06/20.	79/05/10.	110 - LOAD PRINTER IMAGE MEMORY.		
350	31C	PP (4212)	144	4537	79/06/20.	79/05/10.	110/31C - ERROR SUBROUTINES.		
351	31D	PP (2534)	213	4172	79/06/20.	79/05/10.	110/31D - BATCHIO PRESET.		
352	51A	PP (4212)	74	5251	79/06/20.	79/05/10.	110 - 512 595-1 IMAGE MEMORY.		
353	51C	PP (4212)	74	5424	79/06/20.	79/05/10.	110 - 512 595-4, 595-5 IMAGE MEMORY.		
354	510	PP (4212)	74	4076	79/06/20.	78/12/01.	110 - 512 595-6 IMAGE MEMORY.		
355	51E	PP (4212)	117	3727	79/06/20.	79/05/10.	110 - 580 596-1 IMAGE MEMORY.		
356	51G	PP (4212)	117	1275	79/06/20.	79/05/10.	110 - 580 596-4, 596-5 IMAGE MEMORY.		
357	51H	PP (4212)	117	0426	79/06/20.	78/12/01.	110 - 580 596-6 IMAGE MEMORY.		
358	(00)	SUM =	7051	LIBRARY =	8				
359	(00)	SUM =	0	LIBRARY =	9				
360	(00)	SUM =	0	LIBRARY =	10				
361	TLX	PP (1100)	131	1703	79/06/20.	73/06/19.	75/03/23. TERMINAL ACTION PROCESSOR.		
362	1TA	PP (1100)	255	0724	79/07/03.	78/04/10.	79/07/03. IAF AUXILIARY FUNCTION PROCESSOR.		
363	3TA	PP (2561)	21	3473	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - ADJUST *TELEX* FIELD LEN		
364	3TB	PP (2561)	103	6317	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - RETURN TERMINAL JOB.		
365	3TC	PP (2561)	302	0700	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - CREATE ROLLOUT FILE.		
366	3TD	PP (2561)	137	1632	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - TERMINAL LOGOUT PROCESSO		
367	3TE	PP (7006)	65	0135	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - DISPLAY ACCOUNTING MESSA		
368	3TF	PP (4076)	46	1464	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - ISSUE USER MESSAGE.		
369	3TG	PP (2561)	140	4344	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - PARTIAL LOGOUT PROCESSOR		
370	3TH	PP (2561)	23	7407	79/07/03.	78/04/10.	79/07/03. 77/06/03. 1TA - INCREMENT RESOURCE LIMIT		

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371	3TI	PP (2561)	253	6027	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - TERMINAL RECOVERY PROCES
372	3TJ	PP (2561)	206	1531	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - JOB SCHEDULING.
373	3TK	PP (2561)	115	2123	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - GATHER STATISTICS.
374	3TL	PP (2561)	114	6214	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - CLEAN UP SALVARE FILE.
375	3TM	PP (2561)	101	6175	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - REPACK RECOVERY FILE (IN
376	3TN	PP (2561)	41	3507	79/07/03.	78/04/10.	79/07/03.	77/06/03.	1TA - RETURN JOB STATUS.
377	1TO	PP (1100)	366	4720	79/06/20.	78/04/10.	79/06/14.		TERMINAL INPUT/OUTPUT.
378	2TO	PP (3236)	326	3332	79/06/20.	78/04/10.	79/06/14.		1TO/2TO - NETWORK PROCESSING ROUTINES.
379	TCOMND	ABS	112	2506	79/06/20.	74/09/06.	76/01/11.		TERMINAL COMMAND PROCESSOR.
	ASCII		120						
	CSET		123						
	PARITY		132						
	RFL=		225						
380	VALNET	OVL 00,00	6225	0747	79/06/20.	72/06/14.			VALIDATE TERMINAL DESCRIPTION FILE.
381	(00)	SUM =	12040	LIBRARY =	11				
382	BLANK	ABS	1262	1532	79/06/20.	76/10/27.	78/04/09.		BLANK TAPE LABELING PROGRAM.
	BLANK		110						
	ARG=		1365						
	RFL=		1502						
	SSJ=		1343						
383	MAGNET	ABS	1567	4326	79/06/20.	78/04/10.	79/05/09.		MAGNETIC TAPE EXECUTIVE.
	MAGNET		1576						
	RFL=		7777						
384	MAGNET1	ABS	533	5326	79/06/20.	78/04/10.	79/05/09.		MAGNETIC TAPE EXECUTIVE TERMINATION.
	MAGNET1		7000						
	MFL=		7777						
	SSJ=		0						
385	RESEX	ABS	6027	0203	79/06/20.	78/04/10.	79/05/09.		RESOURCE EXECUTIVE.
	ASSIGN		5170						
	LABEL		4074						
	REQUEST		5205						
	RESOURC		4225						
	VSN		4311						
	LFM		4322						
	PFM		5210						
	REQ		4355						
	ARG=		236						
	DMP=		100000						
	RFL=		7312						
	SSJ=		224						
386	1LT	PP (1100)	217	7642	79/06/20.	78/04/10.	79/05/09.		1MT - LONG BLOCK HELPER PROCESSOR.
387	1MT	PP (1100)	354	5275	79/06/20.	78/04/10.	79/05/09.		PPU MAGNETIC TAPE EXECUTIVE.
388	3MA	PP (1600)	1173	7044	79/06/20.	78/04/10.	79/05/09.		1MT - INITIALIZE TAPE EXECUTIVE.
389	3MB	PP (6602)	130	6642	79/06/20.	78/04/10.	79/05/09.		1MT - FUNCTION REJECT PROCESSOR.
390	3MC	PP (6602)	176	7621	79/06/20.	78/04/10.	79/05/09.		1MT - ERRLOG MESSAGE PROCESSOR.
391	3MD	PP (6602)	167	0350	79/06/20.	78/04/10.	79/05/09.		1MT - MTS/ATS ERRLOG MESSAGE PROCESSOR.
392	3ME	PP (7302)	41	5701	79/06/20.	78/04/10.	79/05/09.		1MT - MTS/ATS SPECIAL MESSAGE PROCESSOR.
393	3MF	PP (2775)	450	0543	79/06/20.	78/04/10.	79/05/09.		1MT - LOAD CONVERSION MEMORY.
394	3MG	PP (2147)	31	5145	79/06/20.	78/04/10.	79/05/09.		1MT - DROP PPU PROCESSOR.
395	3MH	PP (6602)	143	3644	79/06/20.	78/04/10.	79/05/09.		1MT - CONTROL POINT/CODED PRESET.
396	3MI	PP (2147)	70	0263	79/06/20.	78/04/10.	79/05/09.		1MT - COMPLETE USER FET.
397	3MJ	PP (2147)	436	5340	79/06/20.	78/04/10.	79/05/09.		1MT - ISSUE USER MESSAGE(S).
398	3MK	PP (2147)	547	3433	79/06/20.	78/04/10.	79/05/09.		1MT - USER JOB OPERATIONS.
399	3ML	PP (2147)	335	0434	79/06/20.	78/04/10.	79/05/09.		1MT - READ FUNCTION PROCESSOR.
400	3MM	PP (2772)	246	1121	79/06/20.	78/04/10.	79/05/09.		1MT - READ LONG BLOCK PROCESSOR.

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401	3MN PP (2525)	741	0360	79/06/20.	78/04/10.	79/05/09. 1MT - READ LABEL PROCESSOR.		
402	3MD PP (5703)	74	0155	79/06/20.	78/04/10.	79/05/09. 1MT - MULTI-FILE AUXILIARY PROCESSOR.		
403	3MP PP (2147)	416	6104	79/06/20.	78/04/10.	79/05/09. 1MT - OPEN OPERATIONS.		
404	3MQ PP (2412)	213	5542	79/06/20.	78/04/10.	79/05/09. 1MT - TAPE POSITIONING OPERATIONS.		
405	3MR PP (3755)	435	0410	79/06/20.	78/04/10.	79/05/09. 1MT - MMTS READ ERROR PROCESSOR		
406	3MS PP (3755)	501	2336	79/06/20.	78/04/10.	79/05/09. 1MT - MTS/ATS READ ERROR PROCESSOR.		
407	3MT PP (2147)	333	7227	79/06/20.	78/04/10.	79/05/09. 1MT - WRITE FUNCTION PROCESSOR.		
408	3MU PP (2777)	232	2342	79/06/20.	78/04/10.	79/05/09. 1MT - WRITE LONG BLOCK PROCESSOR.		
409	3MV PP (3052)	334	1151	79/06/20.	78/04/10.	79/05/09. 1MT - WRITE LABEL PROCESSOR.		
410	3MW PP (3760)	342	5513	79/06/20.	78/04/10.	79/05/09. 1MT - MMTS WRITE ERROR PROCESSOR.		
411	3MX PP (3760)	442	4010	79/06/20.	78/04/10.	79/05/09. 1MT - MTS/ATS WRITE ERROR PROCESSOR.		
412	3MY PP (2342)	25	7753	79/06/20.	78/04/10.	79/05/09. 1MT - TAPE MONITORING PRESET.		
413	FIRM66X PPU (00)	3147	3424	78/03/21.				
414	(00) SUM =	27710	LIBRARY =					
415	CATALOG ABS	1557	0416	79/06/20.	75/03/20.	78/10/06. CATALOG FILE.		
	CATALOG 201							
	RFL= 10606							
	SSM= 0							
416	CATLIST ABS	2451	4354	79/06/20.	79/05/10.	CATALOG PERMANENT FILES.		
	CATLIST 2361							
	RFL= 4103							
417	CHKPT ABS	1636	3712	79/06/20.	76/10/27.	79/05/09. CENTRAL MEMORY CHECKPOINT.		
	CKP 260							
	SFP 0							
	DMP= 0							
	RFL= 10115							
	SSJ= 253							
418	CONTROL ABS	1330	6365	79/06/20.	78/04/10.	79/05/09. JOB CONTROL PROCESSOR.		
	COMMENT 136							
	EXIT 137							
	MFL 145							
	MODE 165							
	NOEXIT 204							
	NORERUN 211							
	ONEXIT 217							
	ONSW 220							
	OFFSW 242							
	PROTECT 243							
	RERUN 266							
	RFL 274							
	ROLLOUT 303							
	SETASL 356							
	SETJSL 357							
	SETPR 320							
	SETTL 327							
	SUI 360							
	SWITCH 220							
	USECPU 367							
	RFL= 1430							
419	CTL2 ABS	1245	5550	79/06/20.	78/04/10.	79/05/09. CONTROL STATEMENT BRANCH PROCESSOR.		
	CALL 146							
	GOTO 254							
	RFL= 4436							
	SSJ= 400000							

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	79/10/31. 08.56.15. COMMENTS	PAGE	18
420	CTL3 ABS IF 117 RFL= 1536 ARG= 1536	1040	1302	79/06/20.	78/04/10. 79/05/09. EXPRESSION EVALUATION PROCESSOR.		
421	CONVERT ABS CONVERT 130 RFL= 7600	1532	7273	79/06/20.	75/04/20. 78/04/09. CONVERT FILES.		
422	COPYB ABS COPY 230 COPYBF 232 COPYEI 234 COPYBR 1606 COPYX 1623 TCOPY 2022 RFL= 12152 SSM= 0	4114	6770	79/06/20.	77/03/21. 79/05/09. BINARY FILE COPIES.		
423	COPYC ABS COPYSBF 174 COPYCF 145 COPYCR 161 RFL= 5165 SSM= 0	712	5610	79/06/20.	78/04/10. CODED FILE COPIES.		
424	COPY67 ABS COPY67 110 RFL= 5520	454	2703	79/06/20.	70/06/06. 71/02/14. COPY 6600 TAPES TO 7600 FORMAT.		
425	COPY76 ABS COPY76 110 RFL= 5550	444	0474	79/06/20.	70/06/06. 71/02/14. COPY 7600 TAPES TO 6600 FORMAT.		
426	CPMEM ABS DED 205 DEP 206 DMDECS 205 DMPECS 201 DMO 250 DMP 251 LBC 336 LOC 354 PBC 434 RBR 477 WBR 562 DMP= 10053 MFL= 5300	5170	5626	79/06/20.	72/12/10. CONTROL POINT MEMORY UTILITIES.		
427	CVLCP ABS CVL 113 DMP= 100000 RFL= 252 SSJ= 0	147	7107	79/06/20.	78/08/10. CVL SCP COMMUNICATIONS.		
428	DAYFILE ABS DAYFILE 206 AFD 200 DFD 214 ELD 222 ARG= 1021 RFL= 10114	2172	5471	79/06/20.	76/01/09. 78/04/09. DUMP DAYFILES.		
429	DDCMET ABS DDCMET 244	3476	6356	79/06/20.	70/08/25. 79/05/09. DDCMET - INTERNAL/EXTERNAL DOCUMENTATIO		

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	19
430	MFL= 211445 EDIT ABS EDIT 4140 RFL= 11725 SSM= 0	4436	3350	79/06/20.	76/10/25. 79/05/09. TIME SHARING TEXT EDITOR.			
431	ENQUIRE ABS ENQUIRE 2207 LENGTH 2210 STATUS 2215 SUMMARY 2216 RFL= 3317 SSJ= 0	2341	2665	79/06/20.	75/05/08. 79/05/09. 75/02/16. ENQUIRE ABOUT JOB STATUS.			
432	FCOPY ABS FCOPY 147 RFL= 4456	1201	1217	79/06/20.	79/05/10. FCOPY - FILE COPY.			
433	FILES ABS BKSP 175 COMMON 202 DISPOSE 214 EVICT 365 LOCK 372 OUT 377 PRIMARY 404 RENAME 412 SKIPEI 436 SKIPF 443 SKIPFB 452 SKIPR 457 SETID 422 UNLOCK 464 WRITEF 471 WRITER 476 RFL= 710	562	3716	79/06/20.	73/06/12. 79/05/09. LOCAL FILE MANIPULATOR.			
434	FNTLST1 OVL 01,00	2414	5124	79/06/20.	78/04/10. 79/05/09. FNTLIST - LIST ACTIVE QUEUED FILES.			
435	HELP ABS HELP 2423 RFL= 3025	2421	6136	79/06/20.	71/03/02. 77/10/19. PROCESS HELP FOR TS USER.			
436	GTR ABS GTR 176 COPYRF 247 MFL= 225656	1717	6060	79/06/20.	73/05/17. 79/05/09. GET SELECTED RECORDS.			
437	LIBEDIT ABS LIBEDIT 111 SSM= 0	4542	1065	79/06/20.	79/05/10. LIBRARY EDITING PROGRAM.			
438	LISTLB ABS LISTLB 135 RFL= 3413 ARG= 1032	1354	1347	79/06/20.	76/10/27. 78/10/06. LIST MAGNETIC TAPE LABELS.			
439	LIST80 ABS LIST80 476 RFL= 5457	1411	0536	79/06/20.	79/05/10. COMPRESS COMPASS LISTINGS.			
440	LO72 ABS LO72 2277 RFL= 4056	3342	0015	79/06/20.	70/08/01. COMPRESS OUTPUT FILES.			
441	MFILES ABS CLEAR 163	277	0643	79/06/20.	79/05/10. MULTIPLE FILE PROCESSOR.			

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	RETURN		164						
	REWIND		165						
	UNLOAD		166						
	RFL=		764						
442	MSORT	OVL 00,00	262	6611	79/06/20.	78/04/10.			
443	NOTE	ABS	503	6436	79/06/20.	78/04/10.			
	NOTE		126						
	ENTER		116						
	RFL=		710						
444	PACK	ABS	444	1142	79/06/20.	76/01/11. 78/07/20.			
	PACK		102						
	RFL=		2645						
445	RESEQ	ABS	1670	5454	79/06/20.	79/05/10.			
	RESEQ		1664						
	RFL=		6000						
446	RESTART	ABS	1412	3750	79/06/20.	73/09/25. 79/05/09.			
	RESTART		147						
	DMP=		450000						
	RFL=		10121						
	SSJ=		400000						
447	ROUTE	ABS	520	3516	79/06/20.	CONTROL DATA CORPORATION. 1976.			
	ROUTE		212						
	RFL=		630						
448	SORT	ABS	773	7514	79/06/20.	76/01/11. 77/06/09.			
	SORT		140						
	MFL=		214000						
449	SUBMIT	ABS	1604	1162	79/06/20.	75/04/20. 78/10/06.			
	SUBMIT		172						
	RFL=		10042						
450	TDUMP	ABS	1175	6704	79/06/20.	73/05/05. 78/10/06.			
	TDUMP		1112						
	RFL=		6140						
451	TRMDEF	ABS	1504	7526	79/06/20.	79/02/22.			
	TRMOEF		120						
	RFL=		1611						
452	VERIFY	ABS	2042	6541	79/06/20.	77/03/16. 78/10/06.			
	VERIFY		232						
	RFL=		13220						
	SSM=		0						
453	VFYLIB	ABS	1502	0610	79/06/20.	79/05/10.			
	VFYLIB		135						
	MFL=		220643						
	SSM=		0						
454	OUT	PP (1100)	275	5473	79/06/20.	75/03/20. 79/05/09.			
455	(00)	SUM =	107614	LIBRARY =		13			
456	KRONREF	ABS	2120	3675	79/06/20.	78/04/10.			
	KRONREF		151						
	MFL=		234116						
457	MODIFY	ABS	7621	0621	79/06/20.	75/04/20. 79/05/09.			
	MODIFY		361						
	RFL=		37063						
458	OPLDIT	ABS	10473	6444	79/06/20.	75/03/20. 79/05/09.			
	OPLDIT		252						
	MFL=		222157						

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459	COMPASS ABS COMPASS 355 ARG= 1 MFL= 10000	705	0043	79/06/09.	CYBER 70/ MODEL 74	COMPREHENSIVE ASSEMBLER PROGRAM VERSION		
460	COMP34 OVL 01,00	7636	0402	79/06/09.	CYBER 70/ MODEL 74	COMPREHENSIVE ASSEMBLER PROGRAM VERSION		
461	COMP34A OVL 01,01	14312	6165	79/06/09.	CYBER 70/ MODEL 74	COMPREHENSIVE ASSEMBLER PROGRAM VERSION		
462	UPDATE ABS UPDATE 10626 RFL= 35000	15121	1432	79/06/19.				
463	COPYL ABS COPYL 212 COPYLM 211 RFL= 12000	1577	2610	79/06/19.	MERGE RECORDS FROM MASTER AND CORR. FILES.			
464	ITEMIZE ABS ITEMIZE 2070 RFL= 20000	2212	0324	79/06/19.	LIST CONTENTS OF A BINARY FILE.			
465	(00) SUM =	70643	LIBRARY =	14				
466	NOSTEXT OVL 01,01	5767	7550	79/06/20.	76/10/24.	SYSTEM COMMUNICATION TEXT.		
467	ECSTEXT OVL 01,01	206	3352	79/06/20.	78/04/10.	USER ECS INTERPRETIVE MODE TEXT.		
468	PPTEXT OVL 01,01	1276	2453	79/06/20.	76/10/24.	SYSTEM PP TEXT		
469	PSSTEXT OVL 01,01	3212	6250	79/06/20.	77/08/08.	PRODUCT SET SUPPORT MACROS.		
470	SYSTEXT OVL 01,01	4515	5153	79/06/20.	78/04/10.	SYSTEM CP MACROS.		
471	(00) SUM =	17422	LIBRARY =	15				
472	PFHTEXT OVL 01,01	1101	3041	79/06/09.	PERMANENT FILE SYSTEM MACROS.			
473	FCL5TXT OVL 01,01	10531	1644	79/06/20.	FCL5 - INITIALIZE FCL5 RUN TIME LIBRARY.			
474	MTH5TXT OVL 01,01	2626	1761	79/06/20.	MACROS FOR MATH LIBRARY.			
475	CETEXT OVL 01,01	173	5746	79/06/20.	79/05/10.	ENGINEERING SERVICES SUPPORT TEXT.		
476	SSYTEXT OVL 01,01	132	1564	79/06/20.	76/10/24.	SYSTEM TEXT FOR CONTROL POINT PROGRAMS.		
477	CPCTEXT OVL 01,01	5273	3411	79/06/09.	SYSTEM TEXT FOR CPU PROGRAMS USING *CPC*.			
478	CPUTEXT OVL 01,01	4562	3435	79/06/09.	SYSTEM TEXT FOR CPU PROGRAMS USING MACE I/O.			
479	IPTEXT OVL 01,01	647	3311	79/06/09.	INSTALLATION PARAMETER SYSTEM MACROS.			
480	SPPTXT OVL 01,01	6402	1730	79/06/09.	PPU PROGRAM SYSTEM TEXT.			
481	SCPTXT OVL 01,01	12232	1103	79/06/09.	SYSTEM TEXT.			
482	CDCSTXT OVL 01,01	452	2266	79/06/09.				
483	(00) SUM =	51237	LIBRARY =	16				
484	LDC OVL 00,00	103	5760	79/06/20.	75/07/11.	LDC - LOAD TIMESHARING COMPILER OVERLAY.		
485	LIBGEN ABS LIBGEN 156	1654	2730	79/06/20.	75/04/24. 79/05/09.	LIBGEN - GENERATE USER LIBRARY.		
486	SETCORE OVL 00,00	105	0741	79/06/20.	75/02/10.	SETCORE - PRESET MEMORY.		
487	LORCNTL ABS LIBRARY 244 MAP 207 REDUCE 152 RFL= 316	216	3645	79/06/09.				
488	LOADER ABS LOADLDR 11577 LOAD 11613 LIBLOAD 11613 SLOAD 11613 EXECUTE 11613 NOGO 11613 SATISFY 11613 SFGLOAD 11613	12040	3353	79/06/09.	CYBER COMMON LOADER (L 498).			

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	22
	LDSET	11613							
	GROUP	11613							
	CAPSULE	11613							
	LDR=	11612							
	SLDR=	11610							
	MFL=	240000							
	SSJ=	0							
489	LOADU	ABS	10367	3461	79/06/09.	USER-CALL LOADER (L 498).			
	LOADU	7311							
	SSJ=	0							
490	LDRTEXT	OVL 01,01	1240	3413	79/06/09.	LOADER REQUEST SYSTEM MACROS.			
491	LOADC	OVL 01,01	663	7044	79/06/09.	LOADER - PRDCESS CARD IMAGES.			
492	LOADG	OVL 01,02	2117	3665	79/06/09.	LOADER - GENERATE OVERLAYS.			
493	LOADS	OVL 01,03	4540	2640	79/06/09.	LOADER - GENERATE SEGMENT LOAD.			
494	LOADZ	OVL 01,00	10637	3544	79/06/09.	LOADER - RESUME OVERLAY GENERATION.			
495	LOADM	OVL 02,00	3542	2237	79/06/09.	LOADER - WRITE LOAD MAP.			
496	LOADUC	OVL 04,01	711	4466	79/06/09.	LOADU - PROCESS CARD IMAGES.			
497	LOADUM	OVL 04,02	2450	6245	79/06/09.	LOADU - WRITE LOAD MAP.			
498	TRAP	OVL 00,00	4307	3027	79/06/09.				
499	SEGRES	OVL 00,00	1136	5257	79/06/09.	SEGMENT LOADER RESIDENT.			
500	(00)	SUM =	63362			LIBRARY = 17			
501	GENHELP	TEXT	37	4434					
502	GENVAL	TEXT	16	1776					
503	LIRMOD	TEXT	17	6625					
504	MOVEPF	TEXT	44	2316					
505	(00)	SUM =	140			LIBRARY = 18			
506	QFM	PP (1100)	1060	6064	79/06/20.	75/01/27. QUEUE FILE MANAGER.			
507	3QA	PP (3170)	152	3451	79/06/20.	74/04/01. QFM - QFM ERROR PROCESSOR.			
508	3QB	PP (3170)	35	4142	79/06/20.	74/04/01. QFM - INITIALIZE IQFT FILE.			
509	3QC	PP (3170)	167	6265	79/06/20.	74/04/01. QFM - REQUEUE/RELEASE FNT LIST.			
510	3QD	PP (3170)	162	4135	79/06/20.	74/04/01. QFM - DEQUEUE/ATTACH PROCESSORS.			
511	QFSP	ABS	6650	2201	79/06/20.	78/04/10. 79/05/09. QUEUED FILE SUPERVISOR.			
	QFSP	6400							
	QREC	6463							
	QLIST	6455							
	QDUMP	6465							
	QLOAD	6473							
	LDLIST	6467							
	QMOVE	6503							
	DFTERM	6513							
	DFLIST	6507							
	QALTER	6433							
	FNTLIST	6436							
	RFL=	10500							
	SSJ=	3377							
	SSM=	6751							
512	QDUMP1	OVL 01,00	3256	7150	79/06/20.	76/10/24. 78/10/06. QUEUE DUMP PROCESSOR.			
513	QLOAD1	OVL 01,00	3040	1431	79/06/20.	76/10/24. 78/10/06. QUEUE LOAD PROCESSOR.			
514	QMOVE1	OVL 01,00	3646	3712	79/06/20.	76/10/24. 78/10/06. QUEUE MOVE PROCESSOR.			
515	QREC1	OVL 01,00	2761	6770	79/06/20.	QUEUE RECOVERY PROCESSOR. 79/05/10.			
516	DFTERM1	OVL 01,00	2145	7247	79/06/20.	75/03/10. 79/05/09. DAYFILE TERMINATION PROCESSOR.			
517	LDI	ABS	503	6220	79/06/20.	71/02/12. 78/04/09. LOAD JOBS TO INPUT QUEUE.			
	LDI	125							
	RFL=	4625							

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	23
518	(00)	SUM =	30525	LIBRARY =	19				
519	ILD	PP (1100)	122	0111	79/07/12.				
520	CUX	PP (1100)	45	6037	79/07/12.	CUX - CHECK USER ACCESS FOR MAINT. ROUTINES.			
521	MLD	PP (1100)	525	6343	79/07/12.				
522	5LL	PP (4500)	476	4571	79/07/12.				
523	5MU	PP (4500)	436	1720	79/07/12.				
524	58X	PP (4500)	464	3530	79/07/12.				
525	55X	PP (4500)	471	2577	79/07/12.				
526	56X	PP (4500)	467	2753	79/07/12.				
527	57X	PP (4500)	463	6671	79/07/12.				
528	541	PP (4500)	445	2360	79/07/12.				
529	58H	PP (4500)	470	2420	79/07/12.				
530	58F	PP (4500)	462	3231	79/07/12.				
531	55U	PP (4500)	447	7775	79/07/12.				
532	55V	PP (6207)	144	7505	79/07/12.				
533	5FH	PP (4500)	463	2262	79/07/12.				
534	5FF	PP (4500)	456	6044	79/07/12.				
535	5MT	PP (4500)	473	0435	79/07/12.				
536	5MW	PP (7277)	75	7065	79/07/12.				
537	5MR	PP (7277)	67	3642	79/07/12.				
538	5MS	PP (7277)	66	7432	79/07/12.				
539	5CU	PP (4500)	347	3267	79/07/12.				
540	5BP	PP (1100)	176	3422	79/07/12.				
541	CP1	PP (1100)	1236	2777	79/07/12.				
542	LP1	PP (1100)	750	6425	79/07/12.				
543	90A	PP (5710)	134	6772	79/07/12.				
544	90B	PP (5710)	204	4744	79/07/12.				
545	90C	PP (5710)	204	0640	79/07/12.				
546	90D	PP (5710)	157	3276	79/07/12.				
547	90E	PP (5710)	113	2552	79/07/12.				
548	90F	PP (5710)	166	5613	79/07/12.				
549	CR1	PP (1100)	1224	0444	79/07/12.				
550	FTP	PP (1100)	671	0660	79/07/12.				
551	90H	PP (5331)	43	1413	79/07/12.				
552	90I	PP (5331)	2	3055	79/07/12.				
553	90J	PP (5331)	124	6526	79/07/12.				
554	90K	PP (5331)	140	2000	79/07/12.				
555	90L	PP (5331)	61	2060	79/07/12.				
556	90M	PP (5331)	107	6663	79/07/12.				
557	90N	PP (5331)	77	3422	79/07/12.				
558	90O	PP (5331)	105	6470	79/07/12.				
559	90P	PP (5331)	65	5470	79/07/12.				
560	90Q	PP (5331)	123	2370	79/07/12.				
561	90R	PP (5331)	25	6166	79/07/12.				
562	90S	PP (5331)	132	7407	79/07/12.				
563	90T	PP (5331)	23	1430	79/07/12.				
564	90U	PP (5331)	123	3532	79/07/12.				
565	90V	PP (5331)	37	5465	79/07/12.				
566	CSU	ABS	2042	0401	79/07/12.				
	CSU	111							
	MFL=	20000							
567	LCM	ABS	3063	5342	79/07/12.				
	LCM	111							
	RFL=	5000							

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	24
568	MEM	ABS	2253	0641	79/07/12.				
	MEM	111							
	RFL=	20000							
569	MY1	ABS	1553	1103	79/07/12.				
	MY1	111							
	MFL=	20000							
570	EC3	ABS	3314	0612	79/07/12.				
	EC3	111							
	RFL=	5440							
	SSJ=	3374							
571	CYBRLOG	ABS	2227	6451	79/07/20.				
	CYBRLOG	1555							
	RFL=	2400							
	SSJ=	110							
572	ALX	ABS	1735	0207	79/07/12.				
	ALX	111							
	RFL=	2100							
573	CT3	ABS	5546	1030	79/07/12.				
	CT3	111							
	RFL=	20000							
574	CT7	ABS	5464	3652	79/07/12.				
	CT7	111							
	RFL=	30000							
575	CT8	ABS	6171	3065	79/07/12.				
	CT8	111							
	RFL=	10000							
576	CU1	ABS	6215	6306	79/07/12.				
	CU1	111							
	RFL=	6400							
577	FM2	ABS	1451	3651	79/07/12.				
	FM2	111							
	RFL=	1600							
578	STX	ABS	5020	1036	79/07/12.				
	STX	111							
	RFL=	40000							
579	CMU	ABS	1643	6422	79/07/12.				
	CMU	111							
	RFL=	10000							
580	FST	ABS	2136	2003	79/07/12.				
	FST	111							
	RFL=	2300							
581	IWS	ABS	2027	3400	79/07/12.				
	IWS	111							
	RFL=	2200							
582	MRG	ABS	2167	5706	79/07/12.				
	MRG	111							
	RFL=	2300							
583	RAN	ABS	2536	0676	79/07/12.				
	RAN	111							
	RFL=	2700							
584	GETLOG	ABS	725	4626	79/07/12.				
	GETLOG	144							
	RFL=	12236							
	SSJ=	363							
585	KEDIAG	ABS	6045	3420	79/07/12.				
	KEDIAG	4152							

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	25
	RFL=	6151							
	SSJ=	2437							
586	NORM	ABS	40574	2422	79/07/12.				
	NORM	11137							
587	FDP	PP (1100)	1105	1742	79/07/05.	FDP - 881/883 PACK FORMATTING UTILITY DRIVER.			
588	FORMAT	ABS	4340	2016	79/07/05.	FORMAT - 7054/844 DISK PACK FORMATTING UTILITY.			
	FORMAT	3731							
	RFL=	4436							
589	(00)	SUM =	170610	LIBRARY =	20				
590	CCLBRWE	ABS	5250	5247	79/06/09.				
	BEGIN	3377							
	REVERT	3377							
	WHILE	3377							
	ENDW	3377							
	ARG=	0							
	RFL=	10664							
	SDM=	0							
	SSJ=	0							
591	CCLIFES	ABS	2636	0501	79/06/09.				
	IFE	2604							
	ELSE	2604							
	ENDIF	2604							
	SKIP	2604							
	ARG=	0							
	RFL=	3677							
	SDM=	0							
	SSJ=	0							
592	CCLDS	ABS	2541	6402	79/06/09.				
	DISPLAY	2423							
	SET	2423							
	ARG=	0							
	RFL=	3602							
	SDM=	0							
	SSJ=	0							
593	SYSLIB	ULIB	2075	6673	79/06/20.				
755	(00)	SUM =	51500	LIBRARY =	21				
756	CRMEP	ABS	10146	0371	79/06/09.				
	CRMEP	3326							
757	FILE	ABS	2617	5204	79/06/09.				
	FILE	1356							
758	IOTEXT	OVL 01,01	11202	1741	79/06/09.				
759	TXTCRM	OVL 01,01	11332	4000	79/06/09.				
760	BANLIB	ULIB	422	6450	79/07/12.				
831	FORM	ABS	7120	7253	79/06/09.				
	FORM	247							
832	BIT8LIB	ULIB	601	4155	79/06/09.				
863	(00)	SUM =	134426	LIBRARY =	22				
864	SYMPL	ABS	11666	1352	79/06/09.				
	SYMPL	11057							
865	SYMP10	OVL 01,00	7553	2534	79/06/09.				
866	SYMP15	OVL 01,05	5621	3361	79/06/09.				
867	SYMP16	OVL 01,06	26024	0435	79/06/09.				
868	SYMP14	OVL 01,04	3005	3146	79/06/09.				

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
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869	SYMP17	DVL 01,07	2427	6546	79/06/09.	
870	SYMP13	DVL 01,03	23023	2360	79/06/09.	
871	SYMP30	DVL 03,00	33	3267	79/06/09.	
872	SYMP31	DVL 03,01	31015	5643	79/06/09.	
873	SYMP32	DVL 03,02	34723	1126	79/06/09.	
874	SYMP40	DVL 04,00	11751	1742	79/06/09.	
875	SYMP50	DVL 05,00	10037	4777	79/06/09.	
876	SYMP51	DVL 05,01	1210	1356	79/06/09.	
877	SYMP52	DVL 05,02	1342	2114	79/06/09.	
878	SYMLIB	ULIB	25	5014	79/06/09.	
885	(00)	SUM =	221375	LIBRARY =	23	
886	(00)	SUM =	0	LIBRARY =	24	
887	(00)	SUM =	0	LIBRARY =	25	
888	(00)	SUM =	0	LIBRARY =	26	
889	(00)	SUM =	0	LIBRARY =	27	
890	(00)	SUM =	0	LIBRARY =	28	
891	(00)	SUM =	0	LIBRARY =	29	
892	CDPY8P	ABS	15227	7272	79/06/09.	
893	CDPY8P	141				
(00)	SUM =	15227	LIBRARY =	30		
894	(00)	SUM =	0	LIBRARY =	31	
895	(00)	SUM =	0	LIBRARY =	32	
896	(00)	SUM =	0	LIBRARY =	33	
897	(00)	SUM =	0	LIBRARY =	34	
898	ADC	PP (1100)	1145	4321	79/06/20. 71/01/09. 78/04/09.	ANDY CAPP DISPLAY.
899	BAT	PP (1100)	1176	1136	79/06/20. 71/03/02. 79/05/09.	BASEBALL GAME.
900	D0G	PP (1100)	345	4126	79/06/20. 73/05/05. 78/04/09.	SNOOPY WWI FLYING ACE.
901	9ZA	PP (3116)	750	7417	79/06/20. 73/05/05. 78/04/09.	ACE - DISPLAY DATA.
902	DS1	PP (1100)	643	7622	79/06/20. 71/01/09. 78/04/09.	6612/DD60 DISPLAY ALIGNMENT TEST.
903	HFM	PP (1100)	123	1510	79/06/20. 74/11/13. 76/05/26.	HARDWARE FUNCTION MANAGER.
904	SMP	PP (1100)	203	5770	79/06/20. 71/07/27. 78/04/09.	SAMPLE CPU P-REGISTER.
905	WRM	PP (1100)	471	0304	79/06/20. 71/01/09. 78/04/09.	WORM(S) DISPLAY.
906	ITS	PP (1100)	574	2451	79/06/20. 78/06/22. 79/05/09.	INTERACTIVE TERMINAL STIMULATION DRIVER.
907	ITE	PP (1100)	717	2757	79/06/20. 78/06/22. 79/05/09.	EXTERNAL TERMINAL STIMULATION DRIVER.
908	DEMUX	ABS	2015	3076	79/06/20. 78/06/22. 79/06/16.	DEMUX - SORT STIMULA TERMINAL DATA.
	DEMUX	142				
	RFL=	23130				
909	DSDI	ABS	20120	7407	79/06/20. 78/04/10. 79/05/09.	DEAD START DUMP INTERPRETER.
	DSDI	320				
	MFL=	50313				
	SSJ=	243				
910	LPT	ABS	3025	3534	79/06/20. 70/07/25. 75/04/20.	LINE PRINTER TEST.
	LPT	110				
	RFL=	3123				

REC	CATALOG OF DS NAME TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	27
911	MST ABS MSADR 130 MST 144 MFL= 205604	1663	3336	79/06/20.	74/03/04. 79/05/09. MASS STORAGE TEST.			
912	SCRSIM ABS SCRSIM 207 RFL= 3257 SSJ= 202	2704	5655	79/06/20.	74/11/13. 79/05/09. STATUS/CONTROL REGISTER SIMULATOR.			
913	STIMULA ABS STIMULA 253 NSTIM 246 ASTIM 247 RFL= 13544	4544	0247	79/06/20.	78/06/22. 79/05/09. INTERACTIVE TERMINAL STIMULATOR.			
914	UPMOD ABS UPMOD 163 MFL= 244156	1755	6074	79/06/20.	70/06/06. 75/04/20. UPDATE TO MODIFY CONVERSION PROGRAM.			
915	DFSORT ABS DFSORT 42226	51051	2671	79/06/20.				
916	PSAMP ABS PSAMP 4514	12744	4123	79/06/20.				
917	(00) SUM =	133764	LIBRARY =	35				
918	(00) SUM =	0	LIBRARY =	36				
919	(00) SUM =	0	LIBRARY =	37				
920	(00) SUM =	0	LIBRARY =	38				
921	(00) SUM =	0	LIBRARY =	39				
922	(00) SUM =	0	LIBRARY =	40				
923	(00) SUM =	0	LIBRARY =	41				
924	(00) SUM =	0	LIBRARY =	42				
925	(00) SUM =	0	LIBRARY =	43				
926	(00) SUM =	0	LIBRARY =	44				
927	(00) SUM =	0	LIBRARY =	45				
928	(00) SUM =	0	LIBRARY =	46				
929	(00) SUM =	0	LIBRARY =	47				
930	(00) SUM =	0	LIBRARY =	48				
931	(00) SUM =	0	LIBRARY =	49				
932	(00) SUM =	0	LIBRARY =	50				
933	(00) SUM =	0	LIBRARY =	51				
934	(00) SUM =	0	LIBRARY =	52				

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	28
935	(00)	SUM =	0	LIBRARY =	53				
936	(00)	SUM =	0	LIBRARY =	54				
937	(00)	SUM =	0	LIBRARY =	55				
938	SYSTEM	OPLD	2321	3762	79/07/31.				
939	* EOF *	SUM =	1704736						

REC	CATALOG OF DS NAME	TYPE	FILE LENGTH	2 CKSUM	DATE	COMMENTS	79/10/31. 08.56.15.	PAGE	29
	* EOI *	SUM =	0						

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	1			
1	COPYRT	OPLC (64)	26	0036	79/05/10.							
2	(00)	SUM =	26	LIBRARY =	1							
3	CETEXT	OPL (64)	1151	7166	79/05/10.							
4	ECSTEXT	OPL (64)	36	2060	78/04/10.							
5	PPTXT	OPL (64)	26	1701	76/10/24.							
6	PSSTEXT	OPL (64)	34	5771	77/08/08.							
7	NOSTEXT	OPL (64)	33	7571	76/10/24.							
8	SSYS	OPL (64)	605	0773	76/10/24.							
9	SYSTEXT	OPL (64)	27	7071	78/04/10.							
10	(00)	SUM =	2160	LIBRARY =	2							
11	CPCOM	OPLC (64)	23724	4254	76/10/27.							
	KRA305	CPCOM1	KRA344	KRA354	CPCOM2	CPCOM3	KRA381	CPCOM4	CPCOM5	KRA390	CPCOM4A	N14000
	CPCOM6	KRA596	CPCOM4B	CPCOM7	N15000							
12	PPCOM	OPLC (64)	24302	7447	78/04/10.							
	KRA502	KRA513	KRA526	KRA548	KRA555	KRA556	KRA562	KRA566	KRA569	DOK21	KRAPFC	KRAPFCA
	KRA572	KRA600	KRA606	PPCOM1	N15000	PPCOM2						
13	(00)	SUM =	50226	LIBRARY =	3							
14	COMCHAC	OPLC (64)	13647	5353	76/01/11.							
	DOK14	KRA293	N13000	KRA311	KRA320	CHAC1	N14000	CHAC2	DOK21	N15000		
15	(00)	SUM =	13647	LIBRARY =	4							
16	COMCARG	OPLC (64)	730	1107	79/05/10.							
17	COMCARM	OPLC (64)	1237	4177	79/05/10.							
18	COMCCCE	OPLC (64)	410	4644	79/05/10.							
19	COMCCDD	OPLC (64)	415	6304	70/12/20.							
	KRON107	DOK07										
20	COMCCFD	OPLC (64)	567	3501	71/09/13.							
	KRON107											
21	COMCCHD	OPLC (64)	356	2615	78/04/10.							
22	COMCCIO	OPLC (64)	1043	5656	79/05/10.							
23	COMCCOD	OPLC (64)	340	5100	70/12/20.							
	DOK12											
24	COMCCMD	OPLC (64)	3617	0154	78/04/10.							
	CCM01	CCM02										
25	COMCCPA	OPLC (64)	1073	5363	76/01/09.							
26	COMCCPM	OPLC (64)	245	1347	70/10/09.							
	K21001											
27	COMCCPT	OPLC (64)	416	7565	73/10/23.							
	CCPT1											
28	COMCCVI	OPLC (64)	3034	3165	75/04/20.							
	N14000											
29	COMCCVL	OPLC (64)	224	7701	78/04/10.							

REC	CATALOG NAME	OF DPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	2
30	COMCOXB OUC12	OPLC (64) OOK07	625 CDXB1	5255	70/10/09.				
31	COMCECM	OPLC (64)	664	4522	78/04/10.				
32	COMCECS CECS1	OPLC (64) CECS2	3600 CECS3	0370 N15000	78/04/10.				
33	COMCEOT	OPLC (64)	461	5512	71/02/04.				
34	COMCFCE CFCE1	OPLC (64) CFCE2	3064 KRON43	5127 KRON92	71/07/21. K21001	OOK03	KRA068	KN0003	KRAPFC
35	COMCFQO N12000	OPLC (64) N13000	1316	3043	75/02/21.				
36	COMCHXB N15000	OPLC (64)	431	6331	78/04/10.				
37	COMCIQP	OPLC (64)	1470	0570	76/10/24.				
38	COMCLFM CLFM1	OPLC (64)	315	0527	70/10/09.				
39	COMCLOO	OPLC (64)	1262	0171	78/04/10.				
40	COMCMTM CMTM1	OPLC (64) CMTM2	742	6272	70/12/13.				
41	COMCMTP DOK01	OPLC (64) CMTP1	3425 CMTP2	6632	70/12/20.				
42	COMCMVE DOK05	OPLC (64)	1427	0103	73/11/10.				
43	COMCOVL	OPLC (64)	265	4332	70/12/20.				
44	COMCPFM CPFM1	OPLC (64)	312	7233	70/12/01.				
45	COMCPFU	OPLC (64)	303	1160	75/08/19.				
46	COMCPOP KRA604	OPLC (64)	1651	6173	78/04/10.				
47	COMCQFM	OPLC (64)	305	2607	74/01/31.				
48	COMCROC	OPLC (64)	520	1254	78/04/10.				
49	COMCRDH CRDH1	OPLC (64)	750	6267	76/01/11.				
50	COMCROO ROO1	OPLC (64) CRDO2	573 K21001	1216 CR003	70/10/09.				
51	COMCROS	OPLC (64)	1416	0640	75/04/20.				
52	COMCRDW KRA302	OPLC (64) KRA344	2755 KRA302B	0621 KRA602	73/11/09. CROW1				
53	COMCRSP	OPLC (64)	2504	7536	78/04/10.				
54	COMCRTN K21006	OPLC (64) CRTN1	13504 N13000	0335 N14000	73/05/05. KRA561				

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	3
55	COMCSFM	OPLC (64)	310	3370	70/10/09.				
56	COMCSFM DOK16	OPLC (64) KRA369	273	5415	74/12/04.				
57	COMCSNM N14000	OPLC (64) KRA535	1015	3707	77/03/15.				
58	COMCSRT CSRT1	OPLC (64) KRA554	2054	7100	78/04/10.				
59	COMCSSN CSSN1	OPLC (64)	320	5351	70/10/24.				
60	COMCSST	OPLC (64)	370	3742	70/12/04.				
61	COMCSTF	OPLC (64)	232	6200	79/05/10.				
62	COMCSYS	OPLC (64)	1121	3005	79/05/10.				
63	COMCUPC DOC10	OPLC (64) K21001	732	3576	70/12/13.				
			DOK01	DOK03	KRA042				
64	COMCUSB	OPLC (64)	621	0333	79/05/10.				
65	COMCVFE CVFE1	OPLC (64)	1456	2210	76/10/27.				
66	COMCWOD	OPLC (64)	471	3744	70/12/13.				
67	COMCWTC K21001	OPLC (64) DOC12	512	1066	70/10/09.				
			KRA038						
68	COMCWTH	OPLC (64)	770	3544	74/12/04.				
69	COMCWTO K21001	OPLC (64)	466	6363	70/10/09.				
70	COMCWTS	OPLC (64)	1360	5371	74/12/04.				
71	COMCWTH CWTW1	OPLC (64) KRA302	2462	5763	73/11/09.				
			KRA302B	DOK18					
72	COMCZAP	OPLC (64)	631	5170	79/05/10.				
73	COMCZTB KRA369	OPLC (64)	303	4770	76/01/11.				
74	(00)	SUM =	115430	LIBRARY =	5				
75	COMDDIS N15000	OPLC (64)	2444	5436	78/04/10.				
76	COMDDSP DDSP1	OPLC (64) KRA606	1657	4450	78/04/10.				
			N15000						
77	COMDSYS KRON84	OPLC (64) KRON98	3433	1375	70/12/20.				
			DOK03	N12000	DSYS1	N14000	DOK20	KRA572	N15000
78	COMDTFN	OPLC (64)	417	3147	79/05/10.				
79	(00)	SUM =	10375	LIBRARY =	6				
80	COMMSE	OPLC (64)	2351	6244	79/05/10.				
81	(00)	SUM =	2351	LIBRARY =	7				

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	4
82	COMPMAC	OPLC (64)	3112	3307	79/05/10.				
83	(00)	SUM =	3112	LIBRARY =	8				
84	COMPACE	OPLC (64)	1015	1365	79/05/10.				
85	COMPACS	OPLC (64)	370	1460	76/01/09.				
	00K14								
86	COMPANS	OPLC (64)	510	6633	76/10/24.				
87	COMPCDI	OPLC (64)	160	5102	76/01/09.				
88	COMPCEA	OPLC (64)	323	6717	76/01/22.				
89	COMPCFP	OPLC (64)	314	7341	76/01/11.				
90	COMPCHI	OPLC (64)	1210	2651	76/01/11.				
	PCHI1								
91	COMPCHL	OPLC (64)	1515	6466	76/01/11.				
	N14000								
92	COMPCHM	OPLC (64)	716	1346	79/05/10.				
93	COMPCIB	OPLC (64)	367	3271	70/03/12.				
	KRA113	K22000							
94	COMPCKP	OPLC (64)	170	4337	75/03/20.				
	N12000								
95	COMPCLD	OPLC (64)	562	6573	73/05/08.				
	N12000	DOK14							
96	COMPCLX	OPLC (64)	523	1435	79/05/10.				
97	COMPCMA	OPLC (64)	1605	3461	74/07/23.				
98	COMPCMX	OPLC (64)	1037	3254	75/02/15.				
	PCMX1	N14000							
99	COMPCOB	OPLC (64)	357	3161	70/03/12.				
	KRA113	K22000							
100	COMPCRA	OPLC (64)	576	7437	79/05/10.				
101	COMPCRS	OPLC (64)	207	7205	73/05/05.				
	KRA113	DOK15							
102	COMPCTI	OPLC (64)	201	1656	72/06/15.				
	K22000								
103	COMPCUA	OPLC (64)	503	4231	76/01/11.				
104	COMPCUN	OPLC (64)	433	4032	76/10/24.				
105	COMPCUT	OPLC (64)	222	3066	76/01/09.				
106	COMPCVI	OPLC (64)	2500	2352	74/12/10.				
	N12000	N14000	00K21						
107	COMPC2D	OPLC (64)	201	7010	70/09/03.				
	KRA113								
108	COMPDTS	OPLC (64)	500	2777	76/01/09.				
	00K14	00K15							
109	COMPDV5	OPLC (64)	245	2147	78/04/10.				

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REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
110	COMPECX	OPLC (64)	351	0156	78/04/10.	
111	COMPFAT	OPLC (64)	525	1253	78/04/10.	
112	COMPGBN	OPLC (64)	254	4531	75/01/20.	
113	COMPGJN KRA113	OPLC (64)	353	6563	71/01/31.	
114	COMPGTN KRA113	OPLC (64)	235	4424	71/01/31.	
115	COMPIFR	OPLC (64)	207	0113	76/01/09.	
116	COMPIRA K21001 KRA113	OPLC (64)	363 N15000	6727	70/09/18.	
117	COMPLDA	OPLC (64)	1465	4320	79/05/10.	
118	COMPMRQ KRON39	OPLC (64) KRON56	667 N13000	5150	70/12/13.	
119	COMPMSD	OPLC (64)	1166	0767	79/05/10.	
120	COMPRBB	OPLC (64)	337	2241	75/01/30.	
121	COMPRCB KRA113	OPLC (64) K22000	474 DOK15	6726 N15000	70/03/12.	
122	COMPRCS	OPLC (64)	1323	4477	79/05/10.	
123	COMPRI N15000	OPLC (64)	523	7464	78/04/10.	
124	COMPREL	OPLC (64)	1116	6620	76/01/11.	
125	COMPRJC KRA113	OPLC (64) DOK14	245	3000	70/07/20.	
126	COMPRI PRI11	OPLC (64) DOK18	1206 PRI12	6725	70/10/05.	
127	COMPRLS N15000	OPLC (64)	260	2744	78/04/10.	
128	COMPRNS KRA113	OPLC (64) N15000	500	3005	73/06/12.	
129	COMPRSI N15000	OPLC (64)	445	1241	78/04/10.	
130	COMPRSS	OPLC (64)	1031	4503	79/05/10.	
131	COMPSAF DOK01	OPLC (64) KRA113	363 DOK15	3271	70/09/03.	
132	COMPSCA	OPLC (64)	1257	7512	78/04/10.	
133	COMPSDI N14000	OPLC (64)	254	1316	76/01/09.	
134	COMPSDN	OPLC (64)	512	0245	74/11/08.	
135	COMPSEI N15000	OPLC (64)	576	3553	78/04/10.	
136	COMPSES	OPLC (64)	176	3645	76/01/09.	

REC	CATALOG NAME	OF DPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	6
137	COMPSFB KRA113	OPLC (64)	260	3475	73/05/05.				
138	COMPSFE	OPLC (64)	673	5002	76/10/24.				
139	COMPSFI	OPLC (64)	415	1365	79/05/10.				
140	COMPSFN	OPLC (64)	254	4044	78/04/10.				
141	COMPSNT K21001	OPLC (64) KRA113	406 DOK15	7102 N15000	70/09/03.				
142	COMPSPA KRA113	OPLC (64)	307	3443	71/01/31.				
143	COMPSRA D0C6	OPLC (64) K21001	565 KRA113	5577 DOK15	70/09/03. N14000	N15000			
144	COMPSRU KRA557A	OPLC (64)	313	3600	78/08/09.				
145	COMPSSE N13000	OPLC (64)	510	6053	76/01/09.				
146	COMPSSE	OPLC (64)	441	2761	79/05/10.				
147	COMPSTA KRA113	OPLC (64)	324	3004	71/01/31.				
148	COMPSTI K22000	OPLC (64) DOK12	343 PST11	4121	72/07/14.				
149	COMPSUT N14000	OPLC (64)	771	5254	76/01/09.				
150	COMPTGB	OPLC (64)	213	2424	76/01/09.				
151	COMPTLB	OPLC (64)	213	5226	76/01/09.				
152	COMPUPP KRA113	OPLC (64)	375	2207	71/02/01.				
153	COMPUPS	OPLC (64)	1224	1033	78/04/10.				
154	COMPUSS	OPLC (64)	5337	2020	79/05/10.				
155	COMPVFC	OPLC (64)	321	2314	76/10/24.				
156	COMPVFN KRA113	OPLC (64)	327	3126	70/03/12.				
157	COMPVMS N14000	OPLC (64) PVMS1	7612 N15000	5210	76/01/11.				
158	COMPWBB KRA113	OPLC (64)	303	2513	70/03/12.				
159	COMPWCB KRA113	OPLC (64) K22000	374	7013	70/03/12.				
160	COMPWEI N15000	OPLC (64)	537	0627	78/04/10.				
161	COMPWSS	OPLC (64)	1167	0303	79/05/10.				

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162	COMPWVE	OPLC (64)	1064	5654	79/05/10.				
163	(00)	SUM =	101167	LIBRARY =	9				
164	COMSACC	OPLC (64)	3116	6051	76/10/27.				
	DOK15	N14000							
165	COMSBIO	OPLC (64)	2417	3073	78/04/10.				
	KRA586	N15000							
166	COMSCIO	OPLC (64)	456	5124	73/05/05.				
	KRA243	N14000	N15000						
167	COMSCPS	OPLC (64)	1421	3062	78/04/10.				
	N15000								
168	COMSDSL	OPLC (64)	1541	1547	79/05/10.				
169	COMSESS	OPLC (64)	413	1561	79/05/10.				
170	COMSEVT	OPLC (64)	471	1117	79/05/10.				
171	COMSEXP	OPLC (64)	3642	3200	75/04/20.				
	KRA231	N13000	KRA306	KRA375	N14000				
172	COMSIOQ	OPLC (64)	1675	7306	75/04/20.				
	N12000	N13000	KRA339	DOK20	KRA584				
173	COMSJCE	OPLC (64)	273	0154	78/04/10.				
	KRA600								
174	COMSJIO	OPLC (64)	1006	2672	79/05/10.				
175	COMSJRO	OPLC (64)	663	6146	78/04/10.				
176	COMSLDR	OPLC (64)	234	5735	73/06/12.				
177	COMSLFM	OPLC (64)	370	1236	78/05/16.				
178	COMSLSD	OPLC (64)	672	6225	79/05/10.				
179	COMSHMF	OPLC (64)	2055	0101	76/01/09.				
	KRAPFC								
180	COMSHRT	OPLC (64)	454	7564	76/01/09.				
	KRA536								
181	COMSMSC	OPLC (64)	154	0565	79/05/10.				
182	COMSMSE	OPLC (64)	136	2656	76/03/04.				
	KRA616								
183	COMSMSP	OPLC (64)	3752	0036	78/04/10.				
	KRAPFC	N15000							
184	COMSMST	OPLC (64)	551	0442	76/01/09.				
	KRA263	N14000	KRAPFCA	N15000					
185	COMSMTR	OPLC (64)	302	2450	76/01/11.				
	N14000								
186	COMSMTX	OPLC (64)	10114	4702	79/05/10.				
187	COMSNCO	OPLC (64)	1726	7551	78/04/10.				
188	COMSNET	OPLC (64)	212	2632	73/05/05.				
	K21006	N14000							

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189	COMSPFM KRA620	OPLC (64)	6340	6062	79/05/10.				
190	COMSPFS KRA113	OPLC (64) SPFS1	3502 KRA239	3323 N12000	73/05/24. N14000				
191	COMSPFU	OPLC (64)	1147	0211	79/05/10.				
192	COMSPRD KRA543	OPLC (64) KRA573	650 N15000	5413	78/04/10.				
193	COMSPRO	OPLC (64)	2062	1661	78/04/10.				
194	COMSQFS KRA541	OPLC (64) KRA584	2652 KRA608	5010	78/04/10.				
195	COMSREM	OPLC (64)	3060	6461	79/05/10.				
196	COMSRSX N15000	OPLC (64)	1567	1507	78/04/10.				
197	COMSSCP N15000	OPLC (64)	732	4653	76/10/24.				
198	COMSSCR	OPLC (64)	666	3747	79/05/10.				
199	COMSSFS KRA038	OPLC (64) K22000	3441	0545	73/05/05.				
200	COMSSRU N12000	OPLC (64) N13000	5453 KRA313	6650 KRA387	75/02/22. N14000	KRA387A	N15000		
201	COMSSSE KRA331	OPLC (64) SSE1	2146 KRA401	4220 N14000	76/10/24. KRA545	KRAPFC	N15000		
202	COMSSSJ	OPLC (64)	706	7174	79/05/10.				
203	COMSTCM KRA500	OPLC (64)	2222	2333	76/10/27.				
204	CUMSTDR KRA064	OPLC (64) KRA105	650 K22000	7573 N12000	73/05/05.				
205	COMSTRX N13000	OPLC (64) N14000	720 N15000	7656	75/04/05.				
206	COMSWEI	OPLC (64)	167	0633	78/04/10.				
207	COMSZOL N15000	OPLC (64)	426	2601	76/10/24.				
208	COMSIDS	OPLC (64)	740	1275	79/05/10.				
209	COMSL76	OPLC (64)	124	4654	79/05/10.				
210	(00)	SUM =	120315	LIBRARY =	10				
211	COMTDA8	OPLC (64)	1620	5446	79/05/10.				
212	COMTOP6	OPLC (64)	425	3633	75/04/20.				
213	COMTOP9	OPLC (64)	545	6776	75/04/20.				
214	COMTNAP TNAP1	OPLC (64)	405	4745	78/04/10.				

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	9			
215	COMTVOT TVOT1	OPLC (64) TVOT2	2576 TVOT3	6562 KRA595	78/04/10.							
216	COMT60P	OPLC (64)	344	0172	78/04/10.							
217	COMT8AO	OPLC (64)	526	1035	79/05/10.							
218	COMT90P	OPLC (64)	342	1005	78/04/10.							
219	(00)	SUM =	7651	LIBRARY =	11							
220	CALLCPU	OPL (64)	152	1071	76/10/27.							
221	CALLLOIS	OPL (64)	142	4520	73/06/12.							
222	CALLPPU N14000	OPL (64)	772	5766	76/10/27.							
223	CALLSYS KRON102	OPL (64)	41	7034	70/03/05.							
224	CALLTAB KRON102	OPL (64)	41	0776	70/03/05.							
225	CALLINT	OPL (64)	373	7424	78/05/31.							
226	(00)	SUM =	2003	LIBRARY =	12							
227	COOING	OPL (64)	37000	3312	78/04/10.							
228	(00)	SUM =	37000	LIBRARY =	13							
229	CIO CIO2 N15000	OPL (64) KRA550	67407 CIO1	1315 CIO3	78/04/10. KRAPFC	KRA581	CIO4	CIO5	CIO6	CIO7	CIO8	CIO9
230	CPM CPM1	OPL (64) CPM2	33145 CPM3	2451 KRA548	78/04/10. KRA557	KRA562	CPM4	CPM5	N15000			
231	CVL KRA513	OPL (64) N15000	23035	1435	78/04/10.							
232	OIO	OPL (64)	7252	0745	79/05/10.							
233	OIS OIS1 OIS6	OPL (64) N13000 OIS7	61656 OIS2 N15000	7347 KRA355	76/01/11. OIS3	KRA372	OIS4	OIS5	N14000	KRA544	KRA567	KRA548A
234	OSO	OPL (64)	132351	4613	79/05/10.							
235	OSP KRA362 DSP8	OPL (64) OSP1 OSP9	24452 KRA362A KRA609	1076 KRA378 N15000	76/10/24. KRA384 OSP1A	OSP2	OSP3	DSP4	OSP5	N14000	DSP6	DSP7
236	ELM	OPL (64)	3273	1023	78/04/10.							
237	EXU K21001	OPL (64) KRA065	2413 EXU1	2401 N15000	70/12/20.							
238	FOL N15000	OPL (64)	21342	0725	78/04/10.							
239	IMS KRA553	OPL (64) KRAPFC	26256 KRAPFCA	1050 N15000	78/04/10. KRA616							

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240	LFM KRA513 LFM6	OPL (64) KRA524 LFM7	51775 KRA567 LFM8	1150 LFM1 LFM9	78/04/10. LFM2 N15000	LFM3	LFM4	KRA581	KRA596	KRA601	KRA606	LFM5
241	MSM	OPL (64)	70262	4266	79/05/10.							
242	MTR	OPL (64)	45537	3412	79/05/10.							
243	OSB	OPL (64)	1777	4062	79/05/10.							
244	OUT N13000	OPL (64) OUT1	2227 OUT2	4341 N15000	75/03/20.							
245	O26 O261	OPL (64) KRA606	44131 O262	2117 O263	78/04/10. O264	N15000						
246	PFM KRA620	OPL (64) PFM2	134100 PFM3	0635 PFM4	79/05/10. PFM5	PFM6	PFM7					
247	PFU KRA547	OPL (64) KRA553	54412 KRAPFC	6753 KRAPFCA	78/04/10. PFU1	N15000	PFU3					
248	PPR	OPL (64)	13244	3557	79/05/10.							
249	QAC DOK20	OPL (64) KRA543	33652 QAC1	2705 DOK21	78/04/10. QAC2	N15000						
250	QAP KRA545	OPL (64) QAP1	31022 KRA586	6762 QAP2	78/04/10. QAP3	N15000						
251	QFM KRA330 QFM7	OPL (64) QFM1 QFM8	36003 KRA339 QFM9	5467 KRA378 QFM10	76/10/24. QFM2 QFM11	QFM3 N15000	QFM4	N14000	QFM5	DOK20	KRA545	QFM6
252	RDM KRA556	OPL (64) KRAPFC	17606 KRAPFCB	3712 N15000	78/04/10.							
253	REC REC1	OPL (64) REC2	34313 KRA567	3732 KRA572	78/04/10. KRA588	REC3	REC4	REC5	N15000			
254	RPV RPV1	OPL (64) N15000	11154	3004	78/04/10.							
255	SET KRA502	OPL (64) KRA509	105622 KRA513	2023 KRA526	78/04/10. KRA528	DOK20	KRA533	KRAPFC	KRA597	SET1	SET2	N15000
256	SFM SFM1 KRA553	OPL (64) KRA285 KRA559	33401 N13000 KRA567	0234 KRA318 KRAPFC	76/01/11. KRA331 SFM4	SFM2 N15000	KRA337	KRA338	SFM3	KRA382	KRA397	N14000
257	SFP KRA567	OPL (64) SFP1	30724 KRA581	4436 SFP2	78/04/10. N15000							
258	SLL	OPL (64)	17614	3352	79/05/10.							
259	STL	OPL (64)	17612	1722	79/05/10.							
260	TLX	OPL (64)	4116	3456	79/05/10.							
261	VEJ VEJ1	OPL (64) N14000	6137 KRA545	0356 N15000	76/10/24.							
262	(00)	SUM =	1654333	LIBRARY =	14							

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263	OAU N14000	OPL (64) N15000	3430	1435	76/10/24.							
264	OAV OAV1	OPL (64) OAV2	4551 N14000	4462 N15000	76/10/24.							
265	0BF KRA513	OPL (64) 0BF1	3010 KRA550	4461 N15000	78/04/10.							
266	0BP N15000	OPL (64)	11330	2632	78/04/10.							
267	ODF	OPL (64)	4504	0664	79/05/10.							
268	OFA N13000	OPL (64) KRAPFC	1215	5517	76/01/11.							
269	ORF N15000	OPL (64)	2642	3263	78/04/10.							
270	ORP	OPL (64)	2555	6262	79/05/10.							
271	OVJ	OPL (64)	10465	2134	79/05/10.							
272	(00)	SUM =	50566	LIBRARY =	15							
273	1AJ DOK19 KRA588	OPL (64) KRA507 KRA600	101242 KRA517 KRA606	4705 1AJ1 1AJ4A	78/04/10. 1AJ2 1AJ5	1AJ3 1AJ6	KRA543 1AJ7	KRA548 1AJ8	KRA552 1AJ9	KRA555 1AJ10	1AJ4 N15000	KRA548A
274	1CD 1CD3	OPL (64)	33733	1213	79/05/10.							
275	1CJ 1CJ1	OPL (64) 1CJ2	12235 N15000	2302	78/04/10.							
276	1CK	OPL (64)	11767	5213	79/05/10.							
277	IDL KRA370	OPL (64) N15000	3514	6146	76/10/24.							
278	1DS	OPL (64)	24771	0562	79/05/10.							
279	1IO	OPL (64)	25163	0075	79/05/10.							
280	1IS	OPL (64)	6611	1304	79/05/10.							
281	1MA 1MA1	OPL (64) KRA552	11670 KRA566A	3222 KRA600	78/04/10. 1MA2	1MA3	N15000					
282	1MB	OPL (64)	13404	0701	79/05/10.							
283	1MC	OPL (64)	2777	7640	79/05/10.							
284	1MT KRA501 KRA572	OPL (64) KRA508 KRA578	303162 1MT1 KRA580	1422 1MT2 KRA610	78/04/10. 1MT3 1MT8	KRA533 1MT9	KRA539 1MT10	KRA567 1MT11	1MT4 1MT12	1MT5 1MT13	1MT6 1MT14	1MT7 N15000
285	1RI 1RI1	OPL (64) KRA543	24723 KRA566	4037 KRA567	78/04/10. 1RI2	KRA566A	KRA573	1RI2A	1RI3	1RI4	N15000	
286	1RO KRA513	OPL (64) 1RO1	27330 KRA566A	0767 KRA571	78/04/10. KRA573	1RO2	1RO3	1RO5	1RO6	N15000		

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	12
287	1SI	OPL (64)	2736	7104	79/05/10.				
288	1SJ	OPL (64)	16125	2435	78/04/10.				
	KRA543	KRA573	1SJ1	N15000					
289	1SP	OPL (64)	11311	0356	78/04/10.				
	N15000								
290	1TA	OPL (64)	76757	2452	78/04/10.				
	KRA513	1TA1	1TA2	1TA3	1TA4	1TA5	1TA6	KRA571	1TA7
								1TA8	N15000
291	1TO	OPL (64)	27532	1112	78/04/10.				
	KRA506	1TO1	1TO2	KRA561	1TO3	1TO4	1TO5	KRA561A	1TO5A
	N15000	1TO10						1TO6	1TO8
									1TO9
292	(00)	SUM =	1037157	LIBRARY =	16				
293	5ME	OPL (64)	1145	6042	78/04/10.				
294	6DE	OPL (64)	2204	5107	79/05/10.				
295	6DI	OPL (64)	15662	5503	79/05/10.				
	6DI1								
296	6DP	OPL (64)	10403	2615	79/05/10.				
	6DP1								
297	6MD	OPL (64)	1406	2451	79/05/10.				
298	(00)	SUM =	33244	LIBRARY =	17				
299	ACCFAM	OPL (64)	3013	5350	78/04/10.				
300	BLANK	OPL (64)	6613	7121	76/10/27.				
	BLANK1	BLANK2	N14000						
301	CATALOG	OPL (64)	10716	6164	75/03/20.				
	CATAL1	N12000	N13000	KRA312	CATAL2	CATAL3	CATAL4	N14000	KRA554
								KRA563	CATAL5
302	CATLIST	OPL (64)	12347	0700	79/05/10.				
303	CHARGE	OPL (64)	11427	1636	76/10/27.				
	KRA338	CHARG1	CHARG2	KRA519	KRA557				
304	CHKPT	OPL (64)	10656	1015	76/10/27.				
	CHKPT1	N14000	CHKPT2	CHKPT3					
305	CONFIG	OPL (64)	23452	4153	78/04/10.				
306	CONTROL	OPL (64)	22730	0733	78/04/10.				
	CONTR1	CONTR2	N15000						
307	CONVERT	OPL (64)	7244	4301	75/04/20.				
	KRA211	N14000							
308	COPY8	OPL (64)	44560	4663	77/03/21.				
	KRA374	COPY81	COPY82	COPY83	COPY84	N14000	KRA524	KRA525	COPY85
	COPY88							COPY86	KRA554
									COPY87
309	COPYC	OPL (64)	2606	6677	78/04/10.				
310	COPY67	OPL (64)	1340	0367	70/06/06.				
	CPY2	SCP046	KTITLE						

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30. 09.07.53.	PAGE	13			
311	COPY76 CPY2	OPL (64) SCPO46	1157 KTITLE	5324	70/06/06.							
312	CPMEM CPMEM1	OPL (64) N15000	21045	0210	78/04/10.							
313	CPUMLD	OPL (64)	12706	2617	79/05/10.							
314	CPUMTR CPUMT1	OPL (64)	161300	6301	79/05/10.							
315	CVLCP	OPL (64)	1536	7176	79/05/10.							
316	DAYFILE DAYFI1	OPL (64) DAYFI2	11774 DAYFI3	0201 DAYFI4	76/01/09. DAYFI5	KRA397						
317	DFTERM DFTER1	OPL (64) N12000	21123 N13000	0131 DFTER2	75/03/10. DFTER3	KRA368	DFTER4	DFTER5	DFTER6			
318	DOCUMENT KDC1 DOCME9	OPL (64) KDC2 N15000	22511 DOCI	3740 DOCM1	70/08/25. DOCM2	DOCME3	DOCME4	DOCME5	DOCME6	DOK14	DOCME7	DOCME8
319	EDIT EDIT1	OPL (64) EDIT2	44555 EDIT3	2460 N14000	76/10/25. EDIT4	EDIT5	EDIT6					
320	ENQUIRE ENQUI1 ENQUI7	OPL (64) ENQUI2 N15000	16467 N12000	0046 N13000	75/05/08. ENQUI3	ENQUI4	KRA351	ENQUI5	KRA404	N14000	KRA519	ENQUI6
321	FCOPY	OPL (64)	4332	2302	79/05/10.							
322	FILES FILES1	OPL (64) FILES2	5357 FILES3	4702 KRA115	73/06/12. KRA135	K22000	N13000	FILES4	FILES5	FILES6	N15000	
323	FNTLIST KRA541	OPL (64) FNTLI1	17326	4245	78/04/10.							
324	GTR K21001 GTR9	OPL (64) GTR1 GTR10	10624 GTR2 GTR11	2047 GTR3 GTR12	73/05/17. KRA025 N14000	GTR4 KRA554	GTR5 GTR13	GTR6	KRA058	GTR7	GTR8	N13000
325	HELP HELPI	OPL (64) DOK03	2506 HELP2	1663 HELP3	71/03/02. HELP3A	HELP5	HELP6					
326	INSTALL	OPL (64)	3551	7072	79/05/10.							
327	ISF	OPL (64)	5546	2275	79/05/10.							
328	KRONREF	OPL (64)	14163	5213	78/04/10.							
329	LDC	OPL (64)	534	4453	75/07/11.							
330	LDI LDI1	OPL (64) K22000	1147 LDI2	7545 N14000	71/02/12.							
331	LIBEDIT	OPL (64)	35517	0501	79/05/10.							
332	LIBGEN N12000	OPL (64) N13000	11335 KRA554	5315 LIBGE1	75/04/24. LIBGE2	LIBGE3						
333	LISTLB LISTL1	OPL (64) LISTL2	7445 KRA393	7541 LISTL3	76/10/27.							

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30.	09.07.53.	PAGE	14		
334	LIST80	OPL (64)	3127	6601	79/05/10.							
335	L072	OPL (64)	15025	4117	71/02/28.							
	L0721	L0722	L0723	L0723A	L0724	L0725	L0726	L0727	L0728	L0729	L07210	
336	MAGNET	OPL (64)	33271	2346	78/04/10.							
	KRA501	MAGNE1	KRA533	KRA539	KRA539A	KRA572	KRA578	KRA580	MAGNE2	N15000		
337	MFILES	OPL (64)	3267	1004	79/05/10.							
338	MODIFY	OPL (64)	72243	2530	75/04/20.							
	MODIF1	MODIF2	MODIF3	MODIF4	MODIF5	N13000	MODIF6	MODIF7	MODIF8	KRA352	MODIF9	MODIF10
	N14000	KRA554	MODIF11	KRA611	MODIF12	MODIF13						
339	MODVAL	OPL (64)	62011	7430	76/01/11.							
	MODVA1	KRA288	MODVA2	MODVA3	N13000	MODVA4	OOK16	MODVA5	MODVA6	MODVA7	MODVA8	MODVA9
	MODVA10	KRA393	MODVA11	MODVA12	MODVA13	N14000	MODVA14	MODVA15	KRA590	MODVA16	MODVA17	MODVA18
	MODVA19	MODVA20										
340	MSI	OPL (64)	35622	5660	78/04/10.							
	KRA556	MSI1	MSI2	KRAPFC	MSI3	N15000	KRA616					
341	MSORT	OPL (64)	2311	7255	78/04/10.							
342	NOTE	OPL (64)	1723	2131	78/04/10.							
343	OPL EDIT	OPL (64)	25205	3623	75/03/20.							
	OPL E01	OPL E02	OPL E03	OPL E04	OPL E05	KRA352	OPL E06	KRA611				
344	PACK	OPL (64)	1035	3066	76/01/11.							
	PACK1											
345	PFATC	OPL (64)	10225	5177	73/05/24.							
	PFATC1	PFATC2	KRA116	OOK13	KRA367	N14000	KRA556	KRAPFC				
346	PFCAT	OPL (64)	21026	0647	78/04/10.							
	KRA556	KRAPFC	KRAPFCA	PFCAT1								
347	PFCOPY	OPL (64)	11642	3467	73/05/24.							
	PFCOP1	PFCOP2	PFCOP3	PFCOP4	PFCOP5	KRA099	PFCOP6	KRA116	KRA216	OOK13	KRA367	PFCOP7
	N14000	KRA556	KRAPFC									
348	PFDUMP	OPL (64)	55257	1053	78/04/10.							
	PFDUM1	KRA556	PFDUM2	KRAPFC	PFDUM3	N15000						
349	PFILES	OPL (64)	15123	0220	76/10/27.							
	KRA310	KRA393	PFILES1	N14000	KRAPFC	N15000						
350	PFL0A0	OPL (64)	73014	2315	78/04/10.							
	KRA524	PFL0A1	KRA547	KRA556	PFL0A2	KRAPFC	KRAPFCC	KRA602				
351	PFS	OPL (64)	15361	2274	73/05/24.							
	PFS1	KRA072	PFS2	K22000	KRA239	N12000	OOK13	N13000	PFS3	PFS4	N14000	
352	PROFILE	OPL (64)	61160	5773	76/09/21.							
	PROFI1	PROFI2	KRA393	PROFI3	N14000	PROFI4	PROFI5	PROFI6	KRA590			
353	PURGALL	OPL (64)	4171	6175	73/05/05.							
	KRA005	OOK05	KRA088	PURGA1	PURGA2	PURGA3	PURGA4					

REC	CATALOG NAME	OF OPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS	79/10/30.	09.07.53.	PAGE	15
354	QDUMP KRA368	OPL (64) KRA379	31251 QDUMP1	3513 QDUMP2	76/10/24. QDUMP3	N14000	KRA525	KRA540		
355	QFSP KRA541	OPL (64) KRA568	44030 QFSP1	7237 QFSP2	78/04/10. QFSP3	KRA584	KRA608	QFSP4		
356	QLOAD KRA330	OPL (64) KRA368	22534 KRA379	0276 QLOAD1	76/10/24. QLOAD2	N14000	KRA525	QLOAD3	KRA568	
357	QMOVE KRA368	OPL (64) KRA379	33306 N14000	0477 KRA525	76/10/24. KRA540	QMOVE1				
358	QREC	OPL (64)	20751	0634	79/05/10.					
359	RESEQ	OPL (64)	11612	1023	79/05/10.					
360	RESEX KRA508	OPL (64) RESEX1	74667 RESEX2	7532 KRA544	78/04/10. KRA544A	KRA544B	KRA572	RESEX3	RESEX4	RESEX5 RESEX6
361	RESTART KRA025 RESTA8	OPL (64) RESTA1 RESTA9	10003 RESTA2 KRA255	0352 RESTA3 KRA267	73/09/25. RESTA4 RESTA10	RESTA3A KRA390	KRA110 KRA404	RESTA5 RESTA11	RESTA6 N14000	RESTA7 RESTA12 KRA125 KRA559 KRA127 RESTA13
362	ROUTE KRA384	OPL (64) DOK18	5745 N14000	4765	76/10/24.					
363	SETCORE	OPL (64)	713	2272	75/02/10.					
364	SFS K22000	OPL (64) SFS1	14514 N13000	4050 SFS2	73/05/24. KRA590					
365	SORT N13000	OPL (64) SORT1	3657	1454	76/01/11.					
366	SUBMIT SUBM11	OPL (64) SUBM12	13740 SUBM13	3654 SUBM14	75/04/20. SUBM14A	SUBM15	SUBM16			
367	SYSEDIT SYSED1	OPL (64) SYSED2	34635 SYSED3	4501 SYSED4	76/10/24. SYSED5	SYSED6	N14000	KRA538	SYSED7	SYSED8 SYSED9 N15000
368	TCOMND KRA233	OPL (64)	1027	7063	74/09/06.					
369	TDUMP TDUMP1	OPL (64) DOK05	6754 TDUMP2	2755 (TDUMP3)	73/05/05. TDUMP4	TDUMP4A	TDUMP5	TDUMP6	TDUMP7	TDUMP8
370	TRMDEF	OPL (64)	5610	3212	79/05/10.					
371	VALNET K21006	OPL (64) N12000	4237 N13000	4562 N14000	73/05/05. KRA561	VALNE1				
372	VERIFY N14000	OPL (64) KRA524	15137 KRA554	2525 KRA563	77/03/16.					
373	VFYLIB	OPL (64)	11471	4675	79/05/10.					
374	(00)	SUM =	2305626	LIBRARY =	18					
375	(00)	SUM =	0	LIBRARY =	19					

REC	CATALOG NAME	OF DPL TYPE	FILE LENGTH	1 CKSUM	DATE	COMMENTS
376	CPUREL	OPL (64)	231	2064	79/05/10.	
377	(00)	SUM =	231	LIBRARY =	20	
378	CMRDECK KRA287	OPL (64)	224	2665	75/05/02.	
379	CMRINST CMRIN1	OPL (64) N15000	1154	6701	78/04/10.	
380	IPRDECK KRA287	OPL (64) IPRDE1	205	4655	75/05/02.	
381	IPRINST	OPL (64)	706	0304	79/05/10.	
382	LIBDECK KRA287	OPL (64)	203	5151	75/05/02.	
383	MOVEPF	OPL (64)	72	6712	76/11/16.	
384	(00)	SUM =	3010	LIBRARY =	21	
385	GENHELP	OPL (64)	56	1375	73/05/05.	
386	GENVAL	OPL (64)	32	0362	76/01/14.	
387	(00)	SUM =	110	LIBRARY =	22	
388	EOR1	OPL (64)	3	7105	75/05/08.	
389	EOR2	OPL (64)	3	7105	75/05/08.	
390	EOR3	OPL (64)	3	7105	75/05/08.	
391	EOR4	OPL (64)	3	7105	75/05/08.	
392	EOR5	OPL (64)	3	7105	75/05/08.	
393	EOR6	OPL (64)	3	7105	75/05/08.	
394	EOR7	OPL (64)	3	7105	75/05/08.	
395	EOR8	OPL (64)	3	7105	75/05/08.	
396	EOR9	OPL (64)	3	7105	75/05/08.	
397	EOR10	OPL (64)	3	7105	75/05/08.	
398	(00)	SUM =	36	LIBRARY =	23	
399	OPL	OPLD	1361	3147	79/06/15.	
400	* EOF *	SUM =	6046755			

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CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NDSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 1  
 DIRECT LOCATIONS.  
 SYMBOL VALUE DECK REFERENCES.

T0	0	COMOQIS COMPLQA OSO QFM IOS 6DI ILS	COMDOSP COMPRJC ELM REC IIO 6OP OMF	COMDSYS COMPSCA FDL RPV IMB 6MO IMR	COMMSE COMPSDN IMS SET IMC PROFILE CMO2110	COMPANS COMPSEI LFM SFM IMT ITN COMPBKP	COMPCEA COMPSRA MSM SFP IRO ITO CPO	COMPORA COMPSSE MTR STL ISJ COMP3X0 OOF	COMP20 COMPVMS Q26 TLX ISP SMP QIS	COMPOTS CIO PFM ORP ITA ITS Q26	COMPOV5 CPM PFU IAJ ITO CHD TMG	COMPGBN OIS PPR ICO 6DE 1EO 1LC
T1	1	COMODIS COMPCMA COMPRBB COMPSFI COMPVFN OSP PFM SFP ORF IMB 6DE COMP3X0 1EO Q26	COMOOSP COMPCMX COMPRCB COMPSNT COMPVMS ELM PFU SLL ORP IMC 6OI AOC ILS TMG	COMOSYS COMPCRA COMPRCS COMPSRA COMPWBB EXU PPR STL OVJ IMT 6OP BAT OMF 1LC	COMMSE COMPCVI COMPREI COMPSSE COMPWCB FOL QAC TLX IAJ IRI 6MO OOG IMR	COMPACE COMPECX COMPRFI COMPSSE COMPWVE IMS QAP VEJ ICD IRO CONTROL OSI CMO2110	COMPACS COMPFAT COMPRNS COMPSFI COMPSUT CIO LFM MSM OAU ICJ ISJ COMIIES SMP ABP	COMPANS COMPGBN COMPSI COMPSUT CPM MTR ROM OAV ICK ISP COMIIES WRM CPD	COMPCEA COMPGJN COMPSA COMPUSS CUL DIO OSB REC OBF IDL ISP ITN ITS CPD	COMPCFP COMPLQA COMPSA COMPUSS DIO OIS OUT RPV OBF IOS ITA COMITES ABC OOF EYE	COMPCLO COMPMRQ COMPSI COMPUSS OIS OUT SET OOF ITO ITO ITO CHO CHO EYE	COMPCIX COMPMSD COMPSFE COMPVFC OSO Q26 SFM OFA IMA 5ME 1TP XSP QIS
T2	2	COMOQIS COMPMSD COMPVMS FDL QAC TLX ICO ISI ITN WRM EYE	COMOSYS COMPRCB COMPWCB IMS QAP VEJ ICK ISJ COMITES ITS QIS	COMMSE COMPRCS COMPWVE LFM QFM OAV IDL ISP ITO CHO Q26	COMPACE COMPRFI CIO MSM ROM OBF IOS ITA ITP XSP TMG	COMPACS COMPSFI CPM MTR REC OBF ITO COMP3X0 1EO VMO	COMPCMA COMPSFE CUL DIO OSB OUT OFA IMA 6DE BAT 1LS 1LC	COMPCMX COMPSFI DIO OUT SET OFA IMA 6DE BAT 1MR	COMPOV5 COMPSFN OIS Q26 SFM ORF IMB 6OI OOG CMO2110	COMPECX COMPSSE OSO PFM SFP ORP IMT 6OP OSI HFM CPD	COMPFAT COMPUSS OSP PFU SLL OVJ IRI SYSEIIT HFM CPD	COMPGBN COMPUSS EXU PPR STL IAJ IRO COMIIES SMP OOF
T3	3	COMOSYS COMPSFI CUL MTR SET ORF IMT ITO IMR	COMPACE COMPSFE OIO OSB SFM OVJ IRI ITP COMPBKP	COMPCLO COMPSFN OIS Q26 SFP IAJ IRO DOG ABP	COMPCMA COMPSRA OSO PFM SLL ICO ISJ OSI CPO	COMPCMX COMPUSS OSP PFU STL ICJ ISP HFM OOF	COMPFAT COMPUSS ELM PPR VEJ IOS ITA SMP OIS	COMPRBB COMPVMS EXU QAC OAU ITO WRM Q26	COMPRCB COMPEI FOL QAP OAV ITO 6OI ITS TMG	COMPRCS COMPWVE IMS QFM OBF IMB COMIIES ITN XSP 1LC	COMPRNS CIO LFM ROM OBF IMB ITN XSP	COMPRSS CPM MSM REC OOF IMC COMITES 1LS
T4	4	COMOQIS DIO PPR OAV IIS 6DE WRM 1LC	COMMSE OIS QAP OBF IMA 6OI ITS	COMPCLO OSO QFM OBF IMB 6OP CHD	COMPCMA OSP ROM OOF IMC 6MO XSP	COMPCUN ELM REC OVJ IMT COMIIES 1EO	COMPFAT LFM SET IAJ IRI ITN 1LS	COMPUSS MSM SFM ICO IRO COMITES IMR	COMPVMS MTR SFP ICJ ISP ITO OOF	CIO OSB SLL LOL ISP OSI QIS	CPM Q26 STL IOS ITA HFM Q26	CUL PFM OAU ITO ITO SMP TMG
T5	5	COMDDIS COMPRCS	COMPACE COMPSA	COMPCDI COMPSDI	COMPCKP COMPSDN	COMPCLO COMPSFI	COMPORA COMPSSE	COMPCTI COMPSSE	COMPCUN COMPSUT	COMPCUT COMPSUT	COMPOTS COMPTGB	COMPFAT COMPTLB

		COMPUSS	COMPVMS	COMPWSS	CIO	CPM	OIO	DIS	DSO	DSP	ELM	EXU
		FOL	IMS	LFM	MSM	MTR	OSB	OZ6	PFM	PFU	PPR	QAC
		QAP	QFM	ROM	REC	SET	SFM	SFP	SLL	STL	VEJ	QAU
		OAV	OBP	ODF	OFA	ORF	ORP	OVJ	IAJ	ICD	ICJ	ICK
		IDS	110	11S	1MA	1MB	1MT	1RI	1RO	1SJ	1SP	1TA
		1TO	5ME	6OI	6OP	COMIIES	1TN	COMITES	1TO	1TP	DS1	1TS
		CHD	XSP	1EO	1LS	OMF	1MR	CPD	DOF	QIS	QZ6	TMG
		1LC										
T6	6	COMODIS	COMODSP	COMPCEA	COMPCEA	COMPCRA	COMPCUN	COMPOTS	COMPFAT	COMPLDA	COMPRCS	COMPRNS
		COMPRSS	COMPSCA	COMPSEI	COMPSEI	COMPSEI	COMPSEI	COMPSTI	COMPUS	COMPLDA	COMPRCS	COMPRNS
		COMPVMS	CIO	CPM	DIO	DIS	DSO	DSP	EXU	FOL	IMS	LFM
		MSM	MTR	OSB	OZ6	PFM	PFU	PPR	QAC	QAP	QFM	ROM
		REC	SET	SFM	SFP	SLL	STL	VEJ	OAV	OBP	ODF	ODF
		OFA	ORF	ORP	OVJ	IAJ	ICD	ICJ	ICK	1OS	110	11S
		1MA	1MB	1MT	1RI	1RO	1SJ	1SP	1TA	1TO	6OI	6OP
		6MO	COMIIES	1TN	COMITES	1TO	1TP	DS1	WRM	1TS	CHD	XSP
		1EO	1LS	OMF	1MR	CPD	QIS	QZ6	TMG	1LC		
T7	7	COMODIS	COMPCEA	COMPCEA	COMPCRA	COMPCRA	COMPCUN	COMPOTS	COMPFAT	COMPLDA	COMPRCS	COMPRNS
		COMPSEI	COMPSEI	COMPSEI	COMPSEI	COMPSEI	COMPSEI	COMPSTI	COMPUS	COMPLDA	COMPRCS	COMPRNS
		OSP	EXU	FOL	IMS	LFM	MSM	MTR	CIO	CPM	DIO	DSO
		PPR	QAC	QAP	QFM	ROM	REC	SET	OSB	DZ6	PFM	PFU
		VEJ	OAV	OBP	ODF	ORP	OVJ	IAJ	SFM	SFP	SLL	STL
		1OS	110	11S	1MA	1MB	1MT	1RI	1RO	1SJ	1SP	1TA
		1TO	5ME	6OI	6OP	6MO	COMIIES	1TN	COMITES	1TO	1TP	DS1
		WRM	1TS	CHD	XSP	1EO	1LS	OMF	1MR	CPD	DOF	QIS
		QZ6	SPD	1LC								
CM	10	CPCOM	COMCMAC	COMCCVI	COMCIQP	COMODIS	COMODSP	COMOSYS	COMMSE	COMPANS	COMPCDI	COMPCEA
		COMPCFP	COMPCIB	COMPCCKP	COMPCLO	COMPCIX	COMPCMA	COMPCMX	COMPCOB	COMPCRA	COMPCRS	COMPCIT
		COMPCUA	COMPCUN	COMPCUT	COMPCVI	COMPCOTS	COMPECX	COMPFAT	COMPGJN	COMPGTN	COMPIFR	COMPIRA
		COMPLDA	COMPMRQ	COMPRCB	COMPRCS	COMPREI	COMPRJC	COMPRLS	COMPRSI	COMPSAF	COMPSCA	COMPSOI
		COMPSDN	COMPSEI	COMPSES	COMPSFB	COMPSFE	COMPSFI	COMPSNT	COMPSPA	COMPSRA	COMPSRU	COMPSSE
		COMPSSE	COMPSTA	COMPSTI	COMPSUT	COMPTGB	COMPTLB	COMPUPP	COMPUSS	COMPVMS	COMPCWB	COMPVMS
		COMSACC	COMSSRU	COMTVOT	CALLINT	CIO	CPM	CVL	DIO	DIS	OSD	OSP
		ELM	EXU	FOL	IMS	LFM	MSM	MTR	OSB	OUT	OZ6	PFM
		PFU	PPR	QAC	QAP	QFM	ROM	REC	RPV	SET	SFM	SFP
		SLL	STL	TLX	VEJ	OAV	OAV	OBP	OBP	ODF	OFA	ORF
		ORP	OVJ	1AJ	1CO	1CJ	1CK	1OL	1OS	110	11S	1MA
		1MB	1MC	1MT	1RI	1RO	1SJ	1SP	1TA	1TO	1TS	5ME
		6OE	6OI	6OP	6MO	CATLIST	CONTROL	CPUMLO	CPUMTR	OFTERM	EOIT	FNTLIST
		MAGNET	MODVAL	PROFILE	QDUMP	QLQAO	QMOVE	QREC	RESTART	SFS	SYSEDT	COMIIES
		1TN	IAFEX	COMITES	1TD	TELEX	1TP	DBFORM	TAF	COMCCOP	COMPCXO	ADC
		BAT	QUG	DS1	HFM	SMP	WRM	1TS	DEMUX	DSOI	CHD	XSP
		1EO	1LS	OMF	1MR	XEQIT	CMO2110	COMPBKP	ABP	CPD	DOF	EYE
		QIS	QZ6	SPD	TMG	VMO	1LC					
LA	15	COMPREL	COMPRLI	OIS	DSO	IMS	OZ6	PPR	QAP	REC	OAV	OAV
		OBP	OBP	ODF	OFA	ORF	ORP	OVJ	6OI	CPMEM	CPUMTR	PFLDAD
		KTSOMP	1LS	OMF	CPD	QIS	QZ6					
IR	50	COMPCIB	COMPCOB	COMPSAF	COMSPFM	CIO	CPM	CVL	OIO	OIS	OSP	ELM
		EXU	FOL	IMS	LFM	MSM	OUT	OZ6	PFM	PFU	PPR	QAC
		QAP	QFM	ROM	REC	RPV	SFM	SFP	SLL	STL	TLX	VEJ
		OBP	OBP	1AJ	1CO	1CJ	1CK	1OL	1OS	110	11S	1MA

		1MB COMITES OMF VMO	1MC 1TD 1MR 1LC	1MT 1TP COMPBKP	1RI DOG ABP	1RD HFM CPD	1TA SMP DDF	1TO ITS EYE	5ME DSOI QIS	CPUMTR CHD Q26	COMIIES XSP SPD	1TN ILS TMG
RA	55	CETEXT COMPSTA DIS PPR VEJ 1SI 1TP OMF COMEJCA	CPCOM COMPUPP DSP QAC OBP 1TA TAF 1MR	COMODIS COMPUSS ELM QAP 1AJ 1TO COMSSTM ABP	COMPCIB COMPWBB EXU QFM 1CD CPUMTR HFM CPD	COMPCLX COMPWCB FOL RDM 1DS PF FILES SMP DDF	COMPCMA COMSJRD IMS RPV 1IO COMIIES ITS QIS	COMPCOB COMSPFM LFM SFM 1IS 1TN DSOI Q26	COMPCUA CIO MSM SFP 1MA IAFEX CHD SPD	COMPRBB CPM Q26 SLL 1MT COMITES XSP TMG	COMPRCB CVL PFM STL 1RI 1TO 1ED VMO	COMPSPA DIO PFU TLX 1RO TELEX ILS 1LC
FL	56	CETEXT CIO MTR SET 1MT SYSEDIT ITS TMG	CPCOM CPM Q26 SFM 1RI 1TP MST COMKTLD	COMCMAC CVL PFM SFP 1RO TAF CHD 1LC	COMPCIB DIS PFU SLL 1SI COMCCDP XSP COMAUCR	COMPCLX DSO PPR STL 1SJ COMSSTM 1LS	COMPCMA DSP QAC TLX 1TA ADC CPD	COMPCOB ELM QAP VEJ CONTROL DOG DDF	COMPRLS EXU QFM 1AJ CPMEM DSI EYE	COMPRSI FOL RDM 1DS CPUMTR HFM QIS	COMSEXP LFM REC 1IO FNTLIST SMP Q26	COMSMTX MSM RPV 1MA QFSP WRM SPD
ON	70	COMCMAC COMPVMS DIO OUT SET ORP 1MT 6DP PF FILES 1TO COMCCDP 1ED Q26	COMCWH COMPWBB DIS Q26 SFM OVJ 1RI ACCFAM PFLDAD TELEX DOG 1LS SPD	COMMSE COMPEI DSO PFM SFP 1AJ 1RO CHKPT QDUMP COMBDBM HFM OMF TMG	COMPCVI COMPVSS DSO PFU SLL 1CD 1SI CONFIG QFSP COMBINT SMP 1MR COMAMSS	COMPMRQ COMPVVE ELM PPR STL 1CJ 1SJ CPMEM QMOVE COMKNAM ITS MREC MAC2	COMPRBB COMSMSP EXU QAC TLX 1CK 1SP DAYFILE QREC COMKNWC DSOI XEDIT	COMPRCS COMSMTX FOL QAP VEJ 1DS 1TA DFTERM RESEQ 1TP SCRSIM COMPBKP	COMPSCA COMSSCR IMS QFM OAU 1IO 1TO EDIT RESEX DBFORM STIMULA ABP	COMPSDN CIO LFM RDM OBP 1IS 5ME MAGNET TRMDEF KTSDMP ABC CPD	COMPSSE CPM MSM REC ODF 1MA 6DE MODVAL 1TN LIBTASK CHD DDF	COMPUSS CVL MTR RPV ORF 1MB 6DI PFDUMP IAFEX TAF XSP QIS
HN	71	COMMSE EXU QFM 1IO COMITES TMG	COMPMRQ IMS REC 1IS 1TD	COMPSFI LFM SET 1MA 1TP	COMPVFC MSM SFM 1MT DSI	COMPVMS MTR SLL 1RI ITS	COMSMSP Q26 STL 1RO 1LS	CIO PFM VEJ 1TA OMF	CPM PFU 1AJ 6DE 1MR	DIS PPR 1CJ 6DP CPD	DSO QAC 1CK COMIIES DDF	DSP QAP 1DS 1TN Q26
TH	72	COMPCRA MSM 1AJ 1LS	COMPIRA PFM 1CJ OMF	COMPSCA PFU 1MB 1MR	COMPSEI QAC 1MT DDF	COMPSNT REC 1RI	COMPSRA RPV 1RO	COMPSSE SET 1TA	CIO SLL 1TO	CPM STL CPUMTR	DIO OAV 1TS	DSO ORF 1ED
TR	73	COMDDSP LFM REC 1CK 1TA CHD	COMMSE MSM SET SFM 1DS 1TO 1MR	COMPEI MTR SFM 1IO 5ME 6DP COMD211D	CIO Q26 SFP SLL 1IS 1MB 6DP COMPBKP	CPM PFM SLL 1MB RESEX ABP	CVL PFU STL 1MC 1TN QIS	DIO PPR OAU 1MT 1TD Q26	DSO QAC OBF 1RI DBFORM	DSP QAP 1AJ 1RO COMP3XD	FOL QFM 1CD 1SJ 1TS	IMS RDM 1CJ 1SP DEMUX

DIRECT LOCATIONS.  
SYMBOL VALUE DECK REFERENCES.

CP	74	CDMCMAC COMPRSI CIO MSM REC OBP IMA MODVAL DSI IMR	CDMCCVI COMPSFE CPM MTR RPV ODF IMB PFS HFM CMD211D	CDMDDIS CDMPSRU CVL OUT SET OVJ IMT PROFILE SMP CDMPBKP	CDMDDSP COMPSSE DID D26 SFM IAJ IRI ITD ITN WRM CPD	COMPCIX CDMPUSS DIS PFM SFP ICD ICJ IRI ITD ITP DSDI EYE	CDMPCUA CDMPVMS DSD PFU SLL ICJ ISJ TAF CHD QIS	CDMPGUN COMSACC DSP PPR STL ICK ISJ TAF XSP Q26	CDMPCVI COMSEXP ELM QAC TLX IDL IDS CDMP3XD ADC IED TMG	CDMPRCS CDMSSRU FOL QAP VEJ IDS ITA BAT IED ILC	CDMPREI COMSIDS IMS QFM OAV IID ITD BAT ILS ILC	CDMPRLS COMTVDT LFM RDM OBF IIS CPUMTR DUG E200CP
IA	75	CDMPCRS PPK IDS COMIIES QIS	CDMPMRQ QAP IID ITN Q26	COMPWVE REC IMB COMITES SPD	DID RPV IMC ITD	DIS SET IMT SMP	DSD SFM IRI ITS	IMS SFP IRD IED	LFM SLL ISJ ILS	MSM STL ISP CDMPBKP	D26 IAJ ITA CPD	PFM IDL ITD DDF
DA	76	CDMPMRQ IMT Q26	CID IRI	DID IRD	DIS 6DE	DSD 6DI	MTR ITN	PPR ITD	SET CDMP3XD	STL ILS	IAJ CMD211D	IDL QIS
MA	77	COMMSE DSP PPR TLX IOS ITD BDMI DDF	COMPCVI ELM QAC VEJ IID 6DE DDG QIS	COMPDTS FDL QAP OAU IIS 6DI SMP Q26	COMPSCA IMS QFM OAV IMA 6DP ITS TMG	COMPSFB LFM REC ODF IMC 6MD XSP	CDMPUSS MSM RPV ORF IMT CPUMTR IED	COMPWVE MTR SET OVJ IRI RESEQ ILS	CID DUT SFM IAJ IRD ITN OMF	CPM D26 SFP ICD ISJ IAFEX IMR	DIS PFM SLL ICJ ISP ITD MREC	DSD PFU STL ICK ITA TELEX CPD

CROSS REFERENCE OF OPL. OPL FILE=DPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 5  
 PP RESIDENT ENTRY POINTS.  
 SYMBOL VALUE DECK REFERENCES.

ETB	6	COMTVDT	DSDI									
SLM	106	COMMSE MTR 1TO	COMPCRA PFM 6DI	CDMPRSS PFU 6DP	COMPSEI PPR DSDI	COMPSRA SLL 1MR	COMPHSS 1CJ CPD	COMPWVE 1CK DDF	CID 1OS	IMS 1IS	LFM 1RO	MSM 1TA
MSD	107	DIS Q26	D26	PPR	SET	SFP	1CD	6DI	1TN	1TD	DSDI	QIS
PPR	114	PPCOM LFM RDM 1CD 1RI 1TD XSP TMG	CID MSM REC 1CJ 1RD 1TP 1ED VMO	CPM MTR RPV 1CK 1SI ADC 1LS 1LC	CVL OUT SFM 1DL 1SJ BAT 1MR	DID Q26 SFP 1DS 1SP DOG ABP	DIS PFM SLL 1IO 1TA DSI CPD	DSP PFU STL 1IS 1MA 5ME HFM DDF	ELM PPR TLX 1MA SMP EYE	EXU QAC VEJ 1MB WRM QIS	FDL QAP OBF 1MC CPUMTR 1TS Q26	IMS QFM 1AJ 1MT 1TN CHD SPD
FTN	336	DSD	SLL	1MB	IAFEX	TELEX	DSDI	ACPD				
RCH	377	1AJ	COMITES	DSDI								
DCH	406	COMITES	DSDI	MST	TMG							
DFM	442	COMPSSE LFM REC 1CJ 1SI DOG 1MR	CALLINT MSM RPV 1CK 1TA DSI CMD211D	CID OUT SFM 1DS 5ME HFM CPD	CPM D26 SFP 1IO 6DI SMP DDF	CVL PFM SLL 1IS 6DP WRM EYE	DIS PFU TLX 1MA 1TN 1TS QIS	DSP PPR VEJ 1MB 1TP DSDI TMG	ELM QAC OAU 1MC 1TD CHD VMO	EXU QAP OAV 1MT CMP3XD XSP 1LC	FDL QFM ORP 1RI ADC 1ED COMZITM	IMS RDM 1AJ 1RO BAT 1LS
EXR	476	CID SFP	CPM ODF	DSP OVJ	IMS 1IO	LFM 1MT	PFU 1RD	PPR 1TA	QAC DSDI	QAP 1LS	QFM DDF	REC
RDS	560	COMDDSP MTR OAV DOG	COMPACE D26 ORF DSI	CDMPRNS PFM ORP WRM	CDMPRSS PFU 1CJ DSDI	COMPWVE PPR 1CK CHD	CID QAC 1IS 1MR	DIS QFM 1MT DDF	FDL RDM 1TD EYE	IMS REC 6DI QIS	LFM SFM ADC Q26	MSM OAU BAT
WDS	563	COMPWEI SFM 1RO	COMPHSS SLL 1TA	COMPWVE OAU 1TO	CID OAV 6DI	IMS ORF DSDI	MSM ORP OMF	NTR 1AJ 1MR	PFM 1CJ CPD	PFU 1CK DDF	PPR 1OS	QAC 1IS
PPFW	1100	COMSMSC LFM REC 1CJ 1RO 1TN 1TS TMG	CID MSM RPV 1CK 1SI COMITES CHD VMO	CPM OUT SET 1DL 1SJ 1TD XSP 1LC	CVL D26 SFM 1DS 1SP 1TP ADC 1ED	DID PFM SFP 1IO 1TA BAT 1MR	DIS PFU SLL 1IS 1TD 1TA BAT 1MR	DSP PPR STL 1MA 6DE DOG ABP	ELM QAC TLX 1MB 6DI DSI CPD	EXU QAP VEJ 1MC 6DP HFM DDF	FDL QFM 1AJ 1MT 6MD SMP EYE	IMS RDM 1CD 1RI COMITES WRM SPD

CROSS REFERENCE OF DPL.		OPL FILE=DPL			SYS. TEXT=NDSTEXT		NDS 1-9E07T/R4A.		79/10/30. 15.07.22.		PAGE 6	
MONITOR FUNCTIONS.												
SYMBOL	VALUE	DECK REFERENCES.										
CCHM	3	CDMDDSP	CDMDTFN	DSD	MTR	DDF	TMG					
DCHM	4	CDMDTFN	DSD	MTR	PPR							
DEQM	5	CDMDDSP 1TN	CDMDTFN CDMITES	LFM 1TD	MTR 1TS	REC 1ED	ODF QIS	1CD Q26	1CJ	11D	1MT	COMIIES
DFMM	6	CDMDTFN	MTR	PPR	1MT	TMG						
SEQM	10	CDMDTFN 6DI	DSD	IMS	MSM	MTR	QAP	RDM	STL	1DS	11D	1MT
PRLM	11	CDMDTFN	MTR	PPR	1MT	CPUMTR	1ED	TMG				
RCHM	12	CDMDTFN	DSD	MTR	PPR	1MT						
REMM	13	CDMDTFN	CPM	DIS	MTR	QIS						
REQM	14	CDMDDSP Q26	CDMDTFN	LFM	MTR	11D	1MT	COMIIES	CDMITES	1TS	1ED	QIS
RDCM	15	CDMDTFN 1DS	CID 1MA	CPM 1SJ	CVL 1SP	DIS 1TA	LFM QIS	MTR	PFM	SFP	1AJ	1CK
RPRM	16	CDMDTFN 1SI	CPM 1SP	DIS 1TA	MTR 1TP	D26 SMP	1AJ CHD	1DS DDF	11D QIS	11S Q26	1MT TMG	1RI
RJSM	17	CDMDTFN	MTR	QFM	SFM	OVJ	1AJ	1DS	1SJ	1TA	1TP	
RSTM	21	CDMDTFN 1RD EYE	COMPREI 1SJ	COMPRLS ADC	CDMPRSI BAT	MTR DDG	REC DS1	SLL SMP	STL WRM	1AJ 1TS	11D 1LS	1MT DDF
DSRM	23	CDMDTFN	DSD	MTR	1MB							
ECXM	24	CDMDTFN	MTR	1RI	1RD							
TGPM	25	CDMDTFN	MTR	1DS	1TD							
TSEM	26	CDMDTFN 1TN	CPM IAFEX	MTR 1TD	RPV TELEX	TLX	1AJ	1DS	1RI	1RD	1TA	1TD
DEPM	27	CDMDTFN	CDMMSE	MTR	6DI	6DP						
ORCM	30	CDMDTFN	CID	DID	MTR	1MT						
SCPM	31	CDMDTFN	CPM	MTR								
EATM	32	CDMDTFN CPD	CDMPCUT	CPM	IMS	MSM	MTR	OFA	ORP	1DS	1MT	1SP
DSWM	33	CDMDTFN	MTR	1MT	6DI	6DP	6MD	TMG				
CPUM ABTM	36 36	COMPMRQ CDMDTFN PFM	MTR CPM PPR	PPR CVL QAC	CPUMTR DIS QAP	DSP QFM	ELM RDM	EXU RPV	IMS SFM	LFM SFP	MSM SLL	Q26 TLX

		VEJ BAT EYE	1AJ DDG VMD	1IS DS1 1LC	1MA SMP	1MB WRM	1MT ITS	1SI CHD	6DI XSP	CPUMTR 1LS	1TP 1MR	ADC DDF
CCAM	37	COMDTFN 1SP	DID 1TA	QAC CPUMTR	REC CPD	SLL	STL	1CK	1DS	1MT	1RD	1SJ
CEFM	40	COMDDSP D26 1DS QIS	COMDTFN PFM 1MA	CALLINT PFU 1MT	CID PPR 1RI	CPM QAC 1TA	DIS QFM CPUMTR	DSO RPV 1TN	DSP SFM 1TD	FDL SFP 1ED	LFM 1AJ 1LS	MTR 1CK DDF
DCPM	41	COMDTFN ITS	DIS CHD	EXU 1LS	MTR QIS	D26	RPV	1AJ	1DS	CPUMTR	1TP	SMP
SFIM	42	COMDTFN	COMPSFI	DSD	SET	CPUMTR						
DTKM	43	COMDTFN SFM 1RD	CID SFP 1TA	DSP SLL 1TO	IMS VEJ CPUMTR	LFM ODF XSP	MSM ORP OMF	PFM 1CJ 1MR	PFU 1CK CPD	PPR 1DS DDF	QFM 1IS	REC 1RI
DPPM	44	COMDTFN MSM SFM 1DS 1TD SMP EYE	CID DUT SFP 1IO 5ME WRM QIS	CPM D26 SLL 1IS 1MA CPUMTR 1TS Q26	CVL PFU STL 1MA 1TN CHD SPD	DID PPR TLX 1MB 1TD XSP TMG	DIS QAC VEJ 1MC 1TP 1ED VMD	DSP QAP OBF 1MT ADC 1LS 1LC	ELM QFM 1AJ 1RO BAT 1MR	EXU RDM 1CD 1SI DDG ABP	IMS REC 1CK 1SJ DS1 CPD	LFM RPV 1DL 1TA HFM DDF
ECSM	45	COMDTFN CPUMTR	COMPDTS OMF	COMPIFR 1MR	DIS	DSO	IMS	MSM	MTR	SFM	1AJ	1DS
RCLM	46	COMDTFN	DIS	DSD	EXU	MTR	RPV	CPUMTR	1TN	1TD	CHD	QIS
RCPM	47	COMDTFN 1TP	DIS HFM	EXU SMP	MTR ITS	RPV CHD	STL CPD	1AJ QIS	1DS TMG	1RI	1RD	CPUMTR
RDCM	50	COMDTFN 1TD	CPM 1TS	MSM 1LS	QAP	REC	SFM	1AJ	1MT	1TA	CPUMTR	1TN
IAUM	51	COMDTFN	COMPSUT	MSM	PFM	PFU	OAU	OAV	OFA	1TA	CPUMTR	1MR
ACTM	52	COMDTFN	CPM	OAU	1AJ	1CJ	1RI	1RD	1TA	CPUMTR		
RPPM	53	COMDTFN 1TN	DIS 1TD	DSD DDG	MTR SMP	D26 1TS	STL 1LS	1CD DDF	1IO QIS	1MT Q26	1SJ	CPUMTR
RSJM	54	COMDTFN CPUMTR	COMPREI	COMPRSI	QFM	1CK	1DS	1MB	1RD	1SJ	1SP	1TA
RTCM	55	COMDTFN REC CPUMTR	CID SLL 1TP	DSP VEJ XSP	IMS OBF OMF	LFM 1CJ 1MR	MSM 1CK CPD	PFM 1DS	PFU 1IS	PPR 1RD	QAP 1TA	QFM 1TD
SFBM	56	COMDTFN	COMPSFB	CID	PFU	ORF	1MT	CPUMTR	1LS	DDF		

STBM	57	COMOTFN COMPSUT ROM IIS	COMPCDI COMPTGB REC IRD	COMPCFP COMPTLB SFM ISJ	COMPCPK COMPUSS OAV ITA	COMPCRA CPM ODF 6DI	COMPCTI OSD OFA CPUMTR	COMPCUT IMS ORP ILS	CDMPSDI MSM IAJ OMF	COMPSEI PFM ICJ IMR	COMPSES PFU ICK DDF	COMPSTI QFM IOS
UADM	60	COMOTFN QFM	CID TLX	CPM ODF	DSD IAJ	OSP ICK	ELM IDS	FDL IMA	IMS IRI	LFM IRD	DUT CPUMTR	PFM
SPLM	61	COMOTFN	OIS	PPR	REC	SLL	STL	IAJ	IDL	CPUMTR	QIS	Q26
JACH	62	COMOTFN	REC	IAJ	ICJ	IRI	IRD	ISJ	CPUMTR			
DLKM	63	COMOTFN	PFM	REC	IIS	CPUMTR	ITP					
TDAM	64	COMOTFN CPUMTR	CID CPD	LFM THG	PFM	PFU	ORF	IAJ	IDS	IMA	IMT	IRI
TIDM	65	COMOTFN	IMT	CPUMTR								
RLMM	66	COMOTFN	COMPSRU	CPM	DIS	OAU	IAJ	IDS	IRI	IRD	CPUMTR	QIS
LCEN	67	COMOTFN	IAJ	CPUMTR								
CSTM	70	COMOTFN	IMS	SFM	ODF	IAJ	IMA	IRI	CPUMTR	CPO		
CKSM	71	COMOTFN	RPV	IAJ	IRI	CPUMTR						
LDAM	72	COMOTFN	COMSMSP	MTR	IIS	6DI	CPUMTR					
VMSM	73	COMOTFN	DSD	MSM	REC	ICK	SME	CPUMTR				
PIOM	74	COMOTFN	6OE	CPUMTR								
MXFM	76	COMOTFN OAV IRD	COMPSCA ODF ITA	CDMPWSS OFA ITD	CID ORF CPUMTR	LFM IAJ XSP	MSM ICD ILS	MTR ICJ	PFM ICK	QAP IID	SFM IMA	STL IMT

CROSS REFERENCE OF OPL.  
CENTRAL MEMORY POINTERS.

OPL FILE-OPL

SYS. TEXT-NOSTEXT

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SYMBOL VALUE DECK REFERENCES.

RPLP	1	OSD	REC	SLL	STL	1AJ	1CK	DSDI				
PPCP	2	COMPMRQ	DIS	DSD	PPR	SET	STL	CPUMTR	COMIIES	COMITES	ITS	DSDI
PLOP	2	ABP	CPD	QIS								
		PPR	REC	SLL	STL	CPUMTR	DSDI					
DFPP	3	QIS	DSD	IMS	MSM	MTR	PPR	REC	SET	SFM	SLL	STL
		1CJ	1CK	1RI	1RO	5ME	CPUMTR	DSDI	QIS			
JBCP	4	COMPRJC	CIO	DSD	PFM	SET	1SP	CPUMTR	IAFEX	TELEX	DSDI	
FNTP	4	COMPFAT	COMPSAF	CIO	CPM	DIS	DSD	DSP	FDL	LFM	OUT	026
		PFM	PFU	QAC	QAP	QFM	REC	SET	SFM	SFP	SLL	STL
		OAU	QBF	QDF	ORF	1AJ	1CJ	1CK	1DS	1MT	1RI	1RO
		1SJ	1SP	1TA	CPUMLD	CPUMTR	ENQUIRE	DSDI	1LS	CPD	DDF	QIS
		Q26	TMG									
ESTP	5	COMOOSP	COMPCFP	COMPSCA	COMPSDN	COMPSFE	COMPMVS	CVL	DIS	DSD	EXU	LFM
		MSM	MTR	PFM	PPR	RDM	REC	SET	SFM	SFP	SLL	STL
		1CJ	1CK	1DS	1IO	1MT	1RO	1SJ	1SP	6DE	BLANK	CONFIG
		CPUMTR	ENQUIRE	MSI	PFCAT	PFDUMP	PFLDAD	PFS	RESEX	COMIIES	1TN	COMITES
		1TD	1TP	COMP3XD	ITS	DSDI	1ED	MREC	CPD	QIS	Q26	MAC2
LBOP	6	CPM	FDL	LFM	REC	SLL	DSDI					
MSAP	6	OSD	SET	CPUMTR	CPD							
CLDP	7	COMPCLD	EXU	LFM	REC	SLL	STL	OVJ	1AJ	CPUMTR	DSDI	
PXPP	62	COMPMRQ	PPR	CPUMTR	DSDI							

[illegible]

CROSS REFERENCE OF DPL. OPL FILE=OPL SYS. TEXT=NDSTEXT NDS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 11  
 CENTRAL MEMORY LOCATIONS.  
 SYMBOL VALUE DECK REFERENCES.

STLL	15	COMPSCA SLL PFDUMP	CDMPSDN ORP PFLDAD	COMPSFE ICK RESEX	COMPMVS IDS DSDI	DSD IIS OMF	IMS IMT IMR	MSM ISP	PFM CONFIG	RDM CPUMTR	REC MSI	SET PFCAT
ODLL	16	COMPMVS IIS MREC DSDI	CVL CONFIG	DSD CPUMTR	IMS MSI	MSM PFCAT	MTR PFDUMP	PFM PFLDAD	RDM QFSP	REC RESEX	SET DSDI	ICK IMR
IN6L	16											
ISLL	17	MSM	DSDI									
IN7L	17	DSDI	SPD									
MSTL	20	COMPCRA PFM CPUMTR DDF	COMPDTS REC MSI	COMPIRA SET PFCAT	COMPSCA SLL PFDUMP	CDMPSEI OAV PFLDAD	CDMPSNT ORF PFS	COMPSRA ICK QFSP	CDMSLSD IDS RESEX	CID IRO OMF	IMS ITA IMR	MSM CONFIG MREC
CMRL	20	CDMPCHX	MTR	ISJ	DSDI	CPD						
JSNL	22	DSD	MTR	REC	SET	DSDI	QIS					
ACML	23	COMOSYS	ISJ	DSDI	CPD	QIS						
AECL	23	DSDI	CPD									
MSCL	24	DSD	MTR	SET	CPUMTR	DSDI						
ECRL	25	CDMPECX CPD	DIS	MTR	REC	SET	IMC	ISJ	ISP	CPUMLD	CPUMTR	DSDI
JDAL	26	DSD	MTR	IMT	DSDI							
PDTL	27	COMPUSS REC	COMPWEI SFM	COMPWSS VEJ	COMPHVE OAU	DSD ORP	MSM ITA	MTR CPUMTR	PFM DSDI	PFU XSP	PPR	QAP
TIML	30	COMOSYS SMP	DSD DSDI	MTR ILS	QAP CPD	SET QIS	SFM	OBP	IDS	IMB	ITA	CPUMTR
DTL	31	CPM QIS	DSD	REC	SET	SFM	OBP	ICJ	ITA	SMP	DSDI	ILS
JSCL	40	DSD	MSM	REC	SET	ICK	ISJ	ISP	CPUMTR	DSDI	CPD	
IPRL	42	CVL ITO	D26 BLANK	SET CPUMTR	OVJ QFSP	IAJ RESEX	ICD ITN	IDS ITO	IID DSDI	IMT IED	IRO CPD	ITA
SSTL	43	COMPCUA OVJ QFSP	CPM IAJ DSDI	DIS ICK DDF	DSD IDS QIS	MSM IMA ILC	MTR IMB MAC2	PFM IMC	QFM ISJ	REC ISP	SET CPUMLD	SLL CPUMTR
SSCL	44	COMPCMX	DSD	REC	TLX	IAJ	IDS	ISJ	ISP	CPUMTR	DSDI	
PPAL	50	MTR	PFU	IIO	IMT	ISJ	ITA	CPUMTR	DSDI	CPD		
MSEL	52	PPR	DSDI									
CMCL	57	DSD CM02110	MTR CPD	PPR QIS	SET TMG	ICD	IMT	CPUMLD	CPUMTR	COMP3XD	DSDI	IED



CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 13  
CENTRAL MEMORY LOCATIONS.  
SYMBOL VALUE DECK REFERENCES.

CTILL	6	PPCOM DDF	COMDSYS QIS	COMPVMS ACPD	MTR	STL	COMIIES	COMITES	DSDI	CMD211D	COMSCPD	CPD
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IN6W	46	DSDI	COMPBKP										
IN7W	47	DSDI	COMPBKP										
SRUW	50	CPM	DIS	DSD	QAC	1AJ	1CJ	1RI	1RO	1SP	1TA	CPUMTR	
ACTW	50	ENQUIRE PPCOM	DSDI CPM	1AJ	1CJ	1MA	1TA						
CPTW	51	CPM SMP	SET DSDI	SFM CPD	STL QIS	1AJ	1CJ	1RI	1SP	1TA	CPUMTR	ENQUIRE	
IOAW	52	CIO	FDL	PFM	1AJ	1MA	CPUMTR	ENQUIRE	DSDI				
ADAW	53	CPM	ENQUIRE	DSDI									
MP1W	53	1TA	CPUMTR	DSDI									
MP2W	54	CPUMTR	DSDI										
MP3W	55	CPM	CPUMTR	DSDI									
STLW	56	COMPSRU DSDI	CPM	DIS	DSD	SET	STL	1AJ	1SJ	1TA	CPUMTR	ENQUIRE	
SRJW	57	CPM	1RO	1SJ	1TA	CPUMTR	ENQUIRE	DSDI					
CPJW	60	CPM	1AJ	1CJ	1SJ	1TA	CPUMTR	ENQUIRE	DSDI	QIS			
FPEW	61	COMPSRU	CPM	1AJ	1CJ	1RI	1RO	1SP	1TA	CPUMTR	DSDI		
FLCW	62	COMPSR 1SJ	CPM 1TA	DIS CPUMTR	MSM ENQUIRE	1AJ 1TP	1IO DSDI	1IS 1LS	1MA QIS	1MT	1RI	1RO	
ELCW	63	COMPRES DSDI	CPM	DIS	1AJ	1MA	1RI	1RO	1SJ	1TA	CPUMTR	ENQUIRE	
SSCW	64	CPM	DSD	REC	1AJ	1DS	1RI	1RO	1SP	CPUMTR	DSDI		
TIOW	65	CIO	CPM	TLX	1RI	1RO	DSDI						
TIAW	65	RPV	TLX	1AJ	1RI	DSDI							
LOFW	65	1AJ	1RO	CPUMTR	DSDI								
TXSW	65	COMPSSE	1RI	1RO	ENQUIRE	DSDI							
PFCW	66	COMPSFE SFM DFTERM	COMPUSS STL ENQUIRE	CIO OAV RESEX	CPM 1AJ DSDI	DIS 1CJ DDF	DSP 1RI QIS	LFM 1RO	MSM 1SJ	PFM 1TA	QFM BLANK	REC CPUMTR	
UIDW	67	COMPCUN OVJ	COMPUSS 1AJ	COMSSSJ 1CJ	CPM 1RI	DIS 1SI	DSP 1TA	LFM ENQUIRE	MSM DSDI	PFM QIS	QFM	SFM	
TINW	70	CIO	1RI	1RO	DSDI								
EECW	70	PPCOM	CPM	DIS	RPV	TLX	1AJ	1RI	1RO	DSDI			
TERM	71	CPM	DIS	PFM	SFM	1AJ	1DS	1RO	DSDI				
TFSW	71	COMPUSS ODF CPD	CPM 1AJ QIS	DIS 1CJ	DSD 1DS	DSP 1RI	LFM 1RO	PFM 1SJ	QAC 1TA	QFM CPUMTR	REC RESEX	STL DSDI	

CSPW	72	COMPRCS 1RI 1LS	CPM 1RO QIS	DIS 1SI	DSD 1SJ	LFM 1SP	MSM 1TA	REC ENQUIRE	SFP 1TN	1AJ 1TD	1IS 1TP	1MT DSDI
CSSW	73	DIS	LFM	1AJ	1CJ	1RI	1TA	CPUMTR	DSDI			
RFCW	74	CPM 1SJ	DIS 1TA	PFM CPUMTR	QAC ENQUIRE	REC RESEX	ODF 1TP	1AJ DSDI	1CJ	1DS	1MA	1MT
ALMW	75	COMPUSS 1RI	COMSSSJ 1RO	CPM 1SJ	DSP 1TA	LFM CPUMTR	QFM DSDI	SET	SFM	STL	0BF	1AJ
ACLW	76	COMSSSJ 1AJ	CIO 1MA	DSP 1RI	ELM 1SJ	LFM ENQUIRE	OUT DSDI	PFM	QFM	SET	STL	ODF
AACW	77	COMPCUA CPUMTR	COMPSSE DSDI	COMSSSJ	CPM	LFM	PFM	SET	STL	1RI	1SJ	1TA
ICAW	100	1MT	CPUMTR	1TN	1TD	1TP	DSDI					
SEPW	101	COMPCUA SFP HFM	COMPUSS SLL DSDI	CIO VEJ QIS	CPM 0BF	DIS 1AJ	DSD 1IS	DSP 1MA	LFM 1RI	PFM 1RO	QFM 1TA	SFM CPUMTR
SPCW	102	PPCOM CPUMTR	CVL DSDI	DIS QIS	DSD	LFM	PFM	SFP	1AJ	1DS	1RI	1RO
JCDW	103	CPM	1RI	ENQUIRE	DSDI							
JCRW	104	CPM	1AJ	1RI	CPUMTR	ENQUIRE	DSDI					
DBAW	105	CPM	DSD	Q26	1AJ	1DS	1MA	1RI	1RO	CPUMTR	DSDI	QIS
LB1W	106	CPM	FDL	1RI	CPUMTR	ENQUIRE	DSDI	Q26				
LB2W	107	PPCOM	FDL	1RI	DSDI							
LB3W	110	CPM	FDL	1RI	DSDI							
PPDW	111	CIO	1AJ	1RO	DSDI							
SSDW	112	REC	1AJ	1RO	CPUMTR	DSDI						
CPLW	113	SET	STL	1AJ	1SJ	CPUMTR	DSDI					
CSBW	130	COMPRCS 1RO	COMSBIO 1SI	DIS 1SJ	DSD CPUMTR	LFM 1TP	MSM DSDI	SFP 1LS	1AJ QIS	1IS	1MT	1RI
MSFW	556	COMPMSD 6DI	DIO 6DP	DIS QIS	MTR Q26	Q26	PPR	REC	SLL	STL	1CD	6DE
EPFW	7500	COMMMSE 1AJ	COMSMSP 1CJ	CPM 1DL	DSP 1MC	PFM 1RO	PPR 1TA	QAC 1TO	QFM 6DI	REC 6DP	SLL CPD	STL

CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 17  
CONTROL POINT AREA WORDS.  
SYMBOL VALUE DECK REFERENCES.

ACTWE	54	PPCOM		
CSBWE	200	DIS	1RI	CPUMTR
ACTNL	4	CPH	1CJ	1TA

CROSS DAYFILE SYMBOL	REFERENCE MESSAGE VALUE	OF OPL. OPTIONS. DECK	OPL FILE-OPL REFERENCES.	SYS.	TEXT=NO TEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	18		
NMSN	10000	IMS	MSM MTR	PFM	QFM	1AJ 1DS					
JNMN	20000	MTR	SFM								
CPDN	30000	CPM 1CJ	DSP 1DS LFM 1MA	MTR 1MT	PFM CHD	QFM QIS SFP BANNER	VEJ THG	OAU	ORP 1AJ		
ACFN	40000	CPM 1DS	DSP 1MA IMS 1RO	MSM	MTR	PFM	QFM	REC	OAV 1AJ 1CJ		
AJNN	50000	MTR	QAC QAP	QFM	SFM	OAU 1DS	1MT	1TA	1LS		
ERLN	60000	COMPSSE REC 5ME	CPM 1CJ 6DI ELM 1CK 6DP	IMS 1DS 1TN	MSM 1TO 1TD	MTR 1MA COMP3XD	PFM 1MB 1ED	PPR 1MC 1MR	QAP 1MT CMD211D	QFM 1RI	RDM 1TA
EJNN	70000	COMSSCP	MTR SFM								

CROSS REFERENCE OF DPL.  
FILE TYPES, AND MASS STORAGE CONSTANTS.  
SYMBOL VALUE DECK REFERENCES.

DPL FILE=DPL

SYS. TEXT=NDSTEXT

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INFT	0	PPCOM SET CPUMTR 1LS	COMPUSS STL ENQUIRE CPD	COMSIDQ VEJ FNTLIST QIS	CIO ODF LDI	DSD IDS QDUMP	DSP 1MA QLOAD	LFM 1RI QMDVE	QAC 1SJ QREC	QAP 1SP IAFEX	QFM 1TA TELEX	REC CONTROL XSP
ROFT	1	PPCOM 1RO CPD	DSD 1SJ QIS	QAC 1SP	REC 1TA	SFM CPUMTR	ODF ENQUIRE	1AJ QLOAD	1CJ QMOVE	IDS QREC	1MA IAFEX	1RI TELEX
PRFT	2	CPCDM QAP QLOAD	PPCOM QFM QMDVE	CDMCVFE REC QREC	COMPUSS SFP 1LS	COMSIDQ OBF QIS	CIO ODF	DSD 1CJ	DSP 1SP	LFM CONTROL	OUT ENQUIRE	QAC FNTLIST
PHFT	3	CPCDM QAP QLDAD	PPCOM QFM QMDVE	CDMCVFE REC QREC	COMPUSS SFP 1LS	COMSIDQ OBF	CIO ODF	DSD 1CJ	DSP 1SP	LFM CONTROL	OUT ENQUIRE	QAC FNTLIST
TEFT	4	PPCOM CPUMTR	DSD ENQUIRE	QAC	REC	ODF	1AJ	IDS	1MA	1RD	1SP	1TA
S1FT	5	COMCVFE	COMSIDQ	DSP	QFM	REC	SFM	ODF	QLOAD	QMOVE	QREC	
S2FT	6	COMSIDQ	DSP	QFM	REC	SFM	ODF	QLOAD	QMDVE	QREC		
S3FT	7	COMCVFE	COMSIDQ	DSP	QFM	REC	ODF	QLDAD	QMOVE	QREC		
L1FT	10	IMS 1IS	LFM 1TA	MSM CHKPT	PFM CONTRDL	PFU ENQUIRE	QFM RESTART	REC	SFM	SLL	STL	ODF
QUFT	10	DSD	DSP	LFM	MSM	QFM	1SP	CHKPT	COMSCPD	CPD	DDF	ACPD
PTFT	11	CIO PFILES	LFM IAFEX	PFM TELEX	REC XEDIT	ODF	1AJ	1RO	1TA	CHKPT	CONTRDL	ENQUIRE
PMFT	12	CIO CONTROL DDF	FDL ENQUIRE Q26	LFM PACK	MSM RESEQ	PFM RESTART	PFU SORT	REC DBFORM	SFM LIBTASK	SFP 1MR	ODF XEDIT	CHKPT CPD
FAFT	13	PPCOM ENQUIRE	COMPFAT QLOAD	MSM QMDVE	PFU QREC	REC 1MR	SFM	ODF	ORF	IDS	1MT	CPUMTR
SYFT	14	IMS QREC	MSM 1MR	REC	SET	SFM	SLL	ODF	1CK	ENQUIRE	QLOAD	QMOVE
LOFT	15	CIO 1CJ CPD	DSD 1IS Q26	DSP 1MT	LFM 1RO	PFM 1TA	QFM CHKPT	REC CONTROL	SLL ENQUIRE	STL QLDAD	OBF QMDVE	ODF RESTART
CMFT	16	CIO CONTROL	DSD ENQUIRE	LFM RESTART	QAC 1LS	REC CPD	SET Q26	SLL	ODF	1AJ	1MA	CHKPT
MXFT	17	COMPSSE	CIO	LFM	QFM	REC	ODF	1CJ	CONTROL	ENQUIRE	QLOAD	ACPD
FSMS	1	COMPRSS QFM 1RI	COMPWSS SFM 1RO	CIO SFP 1TA	DSD SLL PFLDAD	DSP STL IAFEX	EXU OAV TELEX	FDL 1AJ XSP	LFM 1CD 1LS	MSM 1CJ 1MR	PFM IDS	QAC 1IS

CROSS REFERENCE OF OPL. OPL FILE-OPL  
FILE TYPES, AND MASS STORAGE CONSTANTS.  
SYMBOL VALUE DECK REFERENCES.

SYS. TEXT-NOSTEXT

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BFMS	6776	PPCOM COMSSSE PFU ORF IRO OMF	COMPRCS COMSWEI QAC ORP ISJ IMR	COMPRSS CIO QAP IAJ ITA DDF	COMPUSS DSP QFM ICJ SME	COMPWEI EXU RDM ICK 6DI	COMPWSS FOL REC IOS 6DP	COMSOSL IMS SFM IIO QDUMP	COMSIOQ LFM SLL IIS QLOAD	COMSJRO MSM STL IMA QMOVE	COMSLSD MTR VEJ IMT XSP	COMSPFM PFM OBP IRI ILS
FNSS	7000	COMPRSS QAC IRO	COMPUSS QAP ITA	COMPWSS QFM QDUMP	COMSWEI REC QLOAD	CIO SFM QMOVE	DSP SLL XSP	IMS VEJ IMR	LFM ICJ DDF	MSM ICK	PFM IOS	PFU IMA
EQSS	7005	COMPWSS	COMSPFM	DSP	PFM	SFM	VEJ	QLOAD	QMOVE			
FTSS	7006	COMPRSS ITA	COMPWSS	COMSPFM	MSM	PFM	PFU	QFM	RDM	REC	ORP	IIS
NSSS	7007	COMPRSS	COMPWSS	PFM	DDF							
FASS	7011	COMPUSS ICJ	COMPWSS IOS	CIO IRO	DSP	LFM	OUT	PFM	QFM	SFM	SLL	VEJ
DTSS	7012	COMPWSS	MSM	PFM	REC	QLOAD						
ESTS	515	COMDDSP EXU REC IAJ 6DP	COMPDTS FOL SFM ICD ITS	COMPFAT IMS SFP ICJ XSP	COMPSCA LFM SLL ICK IOS IMR	COMPSON MSM STL IOS IIO CPD	COMPSSE PFM VEJ IIO DDF	COMPUSS PFU OAV IIS DDF	CIO PPR OBF IMT THG	CPM QAC ODF IRI	OIS QAP ORP ITA	OSP QFM OVJ ITO
TRTS	7777	COMPCRA ITA	COMPSCA IMR	COMPSEI DDF	COMPSNT	COMPSRA	CIO	PFM	REC	SLL	IOS	IRO

CROSS REFERENCE OF OPL. OPL FILE=OPL  
 JOB ORIGIN TYPES, QUEUE TYPES, AND PRIORITIES.  
 SYMBOL VALUE DECK REFERENCES.

SYS. TEXT=NOSTEXT

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SYOT	0	COMPCUA QFM IMT PROFILE QIS	COMPUSS REC ISI QDUMP Q26	CPM SET ISJ QFSP ILC	CVL STL ISP QMOVE	DSO OBP ACCFAM QREC	DSP IAJ CONTROL RESEX	IMS ICJ CPUMTR ROUTE	LFM IDS FNTLIST ITP	PFM IIO ISF ILS	QAC IIS MAGNET MREC	QAP IMA MODVAL CPD
BCOT	1	COMPUSS IAJ SUBMIT	CIO ICD TAF	DSO ICJ	DSP IIO	LFM CONTROL	OUT FNTLIST	QAC LDI	QAP QDUMP	QFM QLOAD	VEJ QMOVE	OBP ROUTE
EIOT	2	COMCVFE CONTROL E200CP	COMPUSS FNTLIST	DSO QDUMP	DSP QLOAD	LFM QMOVE	QAC QREC	QFM ROUTE	VEJ SUBMIT	OBP TAF	IAJ XSP	ICJ ILS
TXOT	3	COMPCMX OBF CONTROL TRMDEF	COMPUSS OBP CPMEM IAFEX	CIO IAJ CPUMTR TELEX	CPM IDS LO72 OSDI	DSO IRI MODVAL XEDIT	LFM IRO PFILES	OUT ISP QLOAD	QFM ITA QMOVE	REC CATALOG QREC	RPV CATLIST RESEX	TLX CHKPT SUBMIT
MTOT	4	COMPCMX	OBP	IAJ	IRO	ITA	IAFEX	TELEX				
MXOT	5	COMPCMX ISP	CPM OSDI	DSO COMSCPD	DSP CPD	MTR QIS	QFM ACPD	SFM	OBP	IAJ	ICJ	ISJ
TRDT	6	TAF										
INOT	0	DSP	QFM	OVJ	IDS	IRI	ISJ	ISP	ITA	QMOVE	QREC	OSDI
ROQT	1	CPM	IMA	IRI	ISJ	ISP	ITA	OSDI				
OTQT	2	CIO OSDI	DSP ILS	LFM	OUT	QAC	QAP	REC	ICJ	ISP	QMOVE	QREC
MXQT	3	DSO	ISP									
MNPS	100	CPM	OSO	MTR	SET	IRI	ISJ	ISP	QMOVE	QREC	CPD	
MXPS	7760	COMPCMA SET ISP SYSEDIT LOA0BC	CPM STL BLANK SMP	DIS VEJ CPUMTR SCRSIM	DSO OVJ INSTALL STIMULA	DSP IAJ ISF MREC	MTR ICK LOI COMSCPD	O26 IDS MODVAL CPD	PFM IIS PFS DDF	PPR IMA PROFILE QIS	QAC IRI OFSP Q26	REC ISJ RESEX ACPD

CROSS REFERENCE OF DPL. ERROR FLAGS.		OPL FILE=OPL		SYS. TEXT=NOSTEXT		NOS 1-9E07T/R4A.		79/10/30. 15.07.22.		PAGE 22		
SYMBOL	VALUE	DECK REFERENCES.										
ARET	1	RPV	1AJ	CONTROL	CPUMTR							
PSET	2	RPV	1AJ	CONTROL	CPUMTR							
PPET	3	CALLINT ITD	FOL	026	PFU	RPV	1AJ	1MT	1RI	CONTROL	CPUMTR	1TN
CPET	4	RPV	1AJ	CONTROL	CPUMTR							
PCET	5	RPV	SFP	1AJ	CONTROL	CPUMTR						
TLET	6	RPV	1AJ	1RI	CONTROL	CPUMTR	TAF					
FLET	7	DSP	LFM	PFM	QFM	RPV	SFM	1AJ	CONTROL			
TKET	10	PFM	RPV	1AJ	CONTROL							
SRET	11	RPV	1AJ	1RI	CONTROL	CPUMTR						
FSET	12	DIS	RPV	1AJ	1MA	1RI	CONTROL	CPUMTR	QIS			
ODET	13	COMDDSP MAGNET	CIO IAFEX	DSD TELEX	QAC COMKNAM	RDM COMKNWC	RPV 1MR	1AJ MREC	1CK COMPBKP	1MT ABP	1RI QIS	CONTROL Q26
SPET	14	CIO	1AJ	1MT	1MR							
RRET	14	COMDDSP	RPV	1AJ	1DS	CONTROL						
OKET	15	COMDDSP	DSD	RPV	1AJ	CONTROL						
SSET	16	RPV	1AJ	1RI	CONTROL	COMKNAM	COMKNWC					
ECET	17	MTR	RPV	1AJ								
PEET	20	MTR	RPV	1AJ	1CJ	1CK	1MB	1RO	CONTROL	CPUMTR		
SYET	21	CPM	DSP	PPR	QFM	RPV	1AJ	1CK	1MA	1RI	1TA	CONTROL
ORET	22	COMPSDI ORP	COMPSFI 1AJ	DSD 1CJ	PPR 1MA	QFM 1RI	RDM CONTROL	RPV	SFM	OAU	OAV	ORF
MXET	23	RPV	1AJ									
TIET	40	RPV	1RI	PFCAT	PFDUMP	PFLoad						

CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 23

MISCELLANEOUS. SYMBOL VALUE DECK REFERENCES.

CHMC	0	COMSDSL											
ECSY	0	PPCOM	REC	SET									
WLSF	0	COMPWEI	COMPWSS	CIO	IMS	MSM	PFM	PPR	QAC	SFM	OAU	OAV	
		ORF	ORP	IAJ	ICJ	ICK	IIS	ITA	6DI	IMR	DDF		
CPNS	1	PPCOM	COMSDSL	REC	SET								
NOPE	3	CVL											
SVJT	3	COMPCMX	CPM	DSD	SET	IRI	ISJ	ISP	ITA	IAFEX	TELEX	DSDI	
NSJC	5	CHARGE											
PFCT	5	CIO	DSD	PFM	DSDI								
MXJC	6	CPM	DSD	SET	IRI	ISP							
CHDS	10	COMSDSL	CALDIS	DIS	MTR	OZ6	IDL	ADC	BAT	DOG	DSI	WRM	
		CHD	DDF	EYE	QIS								
FECT	14	DSP	LFM	OBF	IAJ	IRI	ITA						
FNCT	15	DSD	LFM	PFU	QAC	SLL	IAJ	IDS	ISP	ITA	ILS		
CHSC	16	COMSDSL	MTR	SLL	IAJ	IMB	HFM	CPD					
NMSD	40	COMSQFS	MSM	MTR	REC	SET	SLL	IIS	ISJ	CONFIG	CPUMTR	OFTERM	
		MSI	PFCAT	PFDUMP	PFLOAD	QFSP	QREC	RESEX	SYSEDT	DSDI	MREC	COMSCPD	
		CPD	ACPD	MAC2									
TTEQ	75	LFM	SET	OBF	IRD	ITA	COMIES	COMITES					
TEEQ	76	LFM	SET	TMG									
NEEQ	77	REC	SET	STL	IIS								
MPRS	100	DSD	SET	ISJ									
DLYA	112	MSM	PPR	ICD	IDS	IMT	TMG						
CPAS	200	DIO	DSD	MSM	REC	SET	SLL	CPUMTR	DSDI				
EEMC	7007	DIS	STL	IAJ	ISJ	ITA	CONTROL	CPUMTR					
MCMX	10000	CPM	DIS	OZ6	IAJ	IMA	IRI	IRD	ISP	ACCFAM	CPUMTR		
WCSF	300000	COMPWSS	COMPWVE	CIO	IMS	MSM	PFM	PFU	PPR	SFM	SLL	ICJ	
		ICK	IDS	IRD	ITA	ITO	CPD						

CROSS REFERENCE OF DPL. COMMON DECK CALLS. DECK	DPL FILE=DPL DECK REFERENCES.	SYS. TEXT=NOSTEXT	NDS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	24
CM0211D	CALLQIS QIS Q26					
CMT211D	CALLQIS QIS Q26					
COMABZF	BZFILL ZSETFET ASDEF	ASLABEL ASMOVE	EXINIT			
COMACHN	CATACC					
COMACMO	ASINIT CATACC MAPACC	ASLABEL ASUSE	ASVAL EXINIT			
CDMACMS	CATACC MAPACC ASDEF	ASLABEL ASUSE	ASVAL			
CDMACPR	ASLABEL ASMOVE	ASVAL EXINIT				
COMAORW	ASLABEL					
COMAFET	CATACC MAPACC ZSETFET	ASMOVE	EXINIT			
COMAKOA	***NONE**					
CDMAKDO	***NONE**					
COMALBL	ASLABEL					
COMALRQ	***NONE**					
COMAMAP	MAPACC ASLABEL ASUSE	ASVAL				
COMAMAT	EXINIT					
COMAMCT	CATACC MAPACC ASLABEL	ASUSE ASVAL	EXINIT			
COMAMSS	ASINIT BZFILL ASVAL EXINIT	CATACC MAPACC	RFORM ZFILL ZSETFET	ASDEF ASLABEL ASMOVE	ASUSE	
COMAOVL	***NONE**					
COMAPFP	CATACC ASDEF	ASLABEL ASMOVE	ASUSE ASVAL	EXINIT		
COMASNS	ASLABEL					
COMASPC	***NONE**					
COMATOM	ASMOVE EXINIT					
COMAUCR	ASLABEL ASMOVE	ASVAL EXINIT				
COMAUOT	EXINIT					
COMBACH	OBFORM TAF	BDMI				
COMBACT	OBFORM TAF	BDMI				
COMBBCT	OBFORM TAF	BDMI				
COMBOBH	TAF	BDMI				

CDMBELP	DBFORM	TAF	BDMI								
CDMBINT	TAF	BDMI									
COMBSCT	DBFORM	TAF	BDMI								
COMCARG	CATALOG MODVAL TDUMP MST	CATLIST MSI VALNET STIMULA	CONVERT DPLEDT VERIFY UPMOD	DOCUMENT PFATC IAFEX DFSORT	ENQUIRE PFCAT DATADEF XEDIT	FCOPY PFILES DATAMAP CKMS	ISF PFLDAD DBFORM MODLIST	KRONREF PFS LIBTASK RUNCPD	LIBGEN PURGALL TAF ACPD	LO72 RESTART DEMUX LOADBC	MODIFY SYSEDIT OSDI
COMCARM	CDNTRDL	CDPYB	DAYFILE	EDIT	PROFILE	TRMDEF	ASARG				
COMCCCE	PFATC	PFCOPY	PFDUMP	PFLDAD							
COMCCOD	CATALOG FCOPY PFCOPY RESEX KTSOMP MODLIST	CATLIST FNTLIST PFDUMP RESTART LIBTASK MAC1	CHKPT KRONREF PFLDAD SYSEDIT TAF	CONTROL LISTLB PFS TDUMP BDMI	CONVERT MAGNET PRDFILE VALNET TERMDEF	COPYB MFILES QDUMP VERIFY DEMUX	COPYC MODIFY QFSP IAFEX OSDI	DAYFILE MODVAL QLOAD TELEX LPT	DFTERM DPLEDT QMOVE DATADEF STIMULA	EDIT PFATC QREC DATAMAP MREC	ENQUIRE PFCAT RESEQ DBFORM XEDIT
CDMCCOM	**NONE**										
COMCCOP	DEBUG										
COMCCFD	ENQUIRE	MAGNET	PROFILE	DATADEF	TAF	DEMUX	MST	STIMULA	CIOTEST	MAC1	
COMCCHD	IAFEX										
COMCCIO	BLANK COPY76 GTR MAGNET PFCOPY RESEQ VFYLIB OSDI CIOTEST LOADBC	CATALOG CPMEM HELP MFILES PFDUMP RESEX IAFEX LPT DDFILE	CATLIST CPUMLO INSTALL MODIFY PFILES RESTART TELEX MST LISTER	CHARGE DAYFILE ISF MODVAL PFLDAD SFS DATADEF SCRSIM MODLIST	CHKPT DFTERM KRONREF MSI PRDFILE SORT DATAMAP STIMULA QAQAQHT	CONFIG DOCUMENT LDI MSORT PURGALL SUBMIT DBFORM UPMOD QAQAQI	CONTROL EDIT LIBEDIT NDTE QDUMP SYSEDIT KTSOMP DEBUG QAQAQNM	CONVERT ENQUIRE LIBGEN DPLEDT QFSP TDUMP LIBTASK E200CP QAQAQS	COPYB FCOPY LISTLB PACK QLOAD TRMDEF TAF XEDIT QREWIND	COPYC FILES LIST80 PFATC QMOVE VALNET BDMI BANNER RUNCPD	COPY67 FNTLIST LO72 PFCAT QREC VERIFY DEMUX BREAK ACPD
COMCCMD	PSSTEXT PFILES MST	CATLIST PFLDAD DEBUG	CONTROL QLOAD RUNCPD	DFTERM QMOVE ACPD	FCOPY QREC LOADBC	FILES RESEX MAC2	ISF VALNET	KRONREF IAFEX	MAGNET TELEX	PFCAT TAF	PFDUMP OSDI
COMCCOD	CATALOG MSI QMOVE BDMI MAC1	CATLIST PFATC QREC OSDI	CONFIG PFCAT TDUMP MST	CONTROL PFCOPY VERIFY SCRSIM	CPMEM PFDUMP VFYLIB STIMULA	DFTERM PFLDAD IAFEX OEBUG	ENQUIRE PFS TELEX MREC	FNTLIST PROFILE DATADEF CKMS	KRONREF QDUMP DBFORM DDFILE	LIBGEN QFSP KTSOMP VFYFL	MODVAL QLOAD TAF LOADBC
COMCCPA	CONTROL	COPYB	DAYFILE	EDIT							
COMCCPM	ACCFAM INSTALL	BLANK ISF	CATLIST KRONREF	CHARGE LDI	CHKPT LISTLB	CONFIG MAGNET	CONTROL MODIFY	CPMEM MODVAL	DAYFILE MSI	DFTERM MSORT	ENQUIRE PFATC

	PFCAT QREC LIBTASK CIDTEST	PFCOPY RESEX TAF	PFDUMP RESTART DEMUX	PFILES SFS DSDI	PFLDAD SDRT MST	PFS VALNET SCRSIM	PROFILE CPUREL STIMULA	QDUMP IAFEX DEBUG	QFSP TELEX MREC	QLDAD DBFDRM XEDIT	QMOVE KTSOMP BREAK
COMCCPT	CATALDG	LIBEDIT	SYSEDIT	VFYLIB							
COMCCVI	ACCFAM	MDDVAL									
COMCCVL	CPMEM	SYSEDIT									
COMCDXB	CATALOG FILES PFILES SYSEDIT DEMUX ACPD	CATLIST INSTALL PFLDAD TDUMP DSDI LDADBC	CHKPT LDI PFS TRMDEF MST MAC1	CONFIG LISTLB PRDFILE VALNET SCRSIM	CONTRDL LD72 PURGALL VERIFY STIMULA	CONVERT MODIFY QFSP IAFEX DEBUG	CDPYB MDDVAL RESEQ TELEX MREC	CDPYC MSI RESEX DATADEF XEDIT	CPMEM PFATC RESTART DBFDRM CKMS	DAYFILE PFCAT RDUTE LIBTASK MDDLIST	DDCMNT PFDUMP SORT TAF RUNCPD
COMCECH	ECSTEXT	CPUREL	TAF								
COMCECS	CPUREL	TAF									
COMCEDT	CATLIST QDUMP	DFTERM QFSP	FNTLIST QLDAD	MDDVAL QMOVE	PFATC QREC	PFCAT RESTART	PFCOPY MAC1	PFDUMP	PFLDAD	PFS	PROFILE
COMCFCE	CATLIST	PFATC	PFCAT	PFCOPY	PFDUMP	PFLDAD					
COMCFQD	QDUMP	QLDAD	QMOVE	QREC							
COMCHXB	TRMDEF	IAFEX									
COMCIQP	QDUMP	QLDAD	QMOVE	QREC							
COMCLFM	BLANK FILES PACK QREC TELEX LDADBC	CATALOG FNTLIST PFATC RESEQ DBFDRM	CATLIST GTR PFCAT RESEX LIBTASK	CHKPT HELP PFCOPY RESTART TAF	CONFIG ISF PFDUMP SORT BDMI	CONTRDL KRDNREF PFILES SUBMIT DSDI	CDPYB LDI PFLDAD SYSEDIT MST	CPMEM LISTLB PROFILE TDUMP XEDIT	DFTERM MAGNET QDUMP VERIFY BREAK	EDIT MFILES QLDAD CPUREL CIDTEST	ENQUIRE MDDVAL QMOVE IAFEX DDFILE
COMCLOD	IAFEX	TELEX									
COMCMAC	PSSTEXT COPYC FNTLIST MAGNET PFDUMP RESEQ VERIFY AAMI MULTCB DSDI BANNER MAC2	ACCFAM CPMEM HELP MFILES PFILES RESEX VFYLIB AAMI SETCHT MST BREAK	BLANK CPUMLD INSTALL MODIFY PFLDAD RESTART IAFEX BDMI STATCHK SCRSIM CIDTEST	CATALDG CVLCP ISF MODVAL PFS SFS TELEX BEGIN SUBMT SCRSIM STIMULA CKMS	CATLIST DAYFILE KRDNREF MSI PRDFILE SDRT CALLKTS BLDABH TARO UPMDD DDFILE	CHARGE DFTERM LDI NDTE PURGALL SUBMIT DATADEF CALLTSK TERMDEF DFSDRT MDDLIST	CHKPT DDCMNT LIBEDIT QPLEDIT QDUMP SYSEDIT DATAMAP CHKDN ITASK PSAMP RUNCPD	CONFIG EDIT LIBGEN PACK QFSP TCMDND DBFDRM DNSTAT MSABT DEBUG ACPD	CONTRDL ENQUIRE LISTLB PFATC QLDAD TDUMP KTSOMP DSDUMP DFFTASK E200CP LDADBC	CONVERT FCOPY LISTBO PFCAT QMOVE TRMDEF LIBTASK EXTRACT SYMSG MREC ASARG	COPYB FILES LD72 PFCOPY QREC VALNET TAF LDGIN DEMUX XEDIT MAC1
COMCHTM	LIBGEN	MDDVAL	PROFILE	SFS	SYSEDIT	VALNET	DATADef	DATAMAP	DBFDRM	LIBTASK	DSDI

CRDSS REFERENCE DF DPL. DPL FILE=DPL SYS. TEXT=NDSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 27  
 COMMON DECK CALLS. DECK DECK REFERENCES.

STIMULA

COMCHTP	LIBGEN STIMULA	MDDVAL	PRDFILE	SFS	SYSEDT	VALNET	DATADEF	DATAMAP	DBFORM	LIBTASK	DSDI
COMCHVE	BLANK LIBGEN PFLDAD VALNET MST	CHARGE LISTLB PFS IAFEX SCRSIM	CHKPT LIST80 PROFILE TELEX STIMULA	CDNFIG LD72 QDUMP DATADEF XEDIT	CONTROL MODIFY QFSP DATAMAP BREAK	CDNVERT MDDVAL QLDAD DBFORM ACPD	DAYFILE MSI QMOVE LIBTASK LDADBC	OFTERM PFATC QREC TAF	DDCMNT PFCAT RESEX BDMI	ENQUIRE PFCOPY SFS DSDI	FNTLIST PFDUMP SYSEDT LPT
COMCDPE	CIDTEST	QAQAQI									
CDMCDVL	KRONREF XEDIT	LDC	LIBEDIT	MDDVAL	PFS	PRDFILE	QFSP	CPUREL	IAFEX	TELEX	TAF
CDMCPFM	CATLIST PFDUMP DBFORM	CHARGE PFILES KTSMP	CDNTROL PFLDAD LIBTASK	DFTERM PRDFILE TAF	EDIT PURGALL BDMI	ENQUIRE RESEX STIMULA	HELP RESTART XEDIT	ISF SUBMIT	MAGNET CPUREL	MODVAL IAFEX	PFCAT TELEX
CDMCPFU	MSI	PFCAT	PFCOPY	PFDUMP	PFLDAD	MAC2					
CDMCPDP	BLANK	CHARGE	CDNTRDL	CDPYB	DAYFILE	EDIT	LISTLB	PRDFILE	RESEX	TRMDEF	ASARG
CDMCQFM	ISF	LDI	MSI	QDUMP	QLOAD	QMOVE	QREC	SUBMIT	TAF		
CDMCRDC	CHARGE MODIFY SCRSIM	CDNTROL MDDVAL STIMULA	CDPYB DPLEDIT DEBUG	DAYFILE QFSP E200CP	DFTERM RESEQ XEDIT	DDCMNT RESTART MODLIST	EDIT SDRT	FCOPY DBFORM	HELP TAF	KRONREF DEMUX	LD72 DSDI
COMCRDH	CDNVERT	DDCMNT	LIBEDIT	LD72	LISTER						
COMCRDO	CHKPT DBFORM	DDCMNT DEMUX	MODVAL DSDI	PFDUMP STIMULA	QLDAD UPMOD	RESTART CIDTEST	TDUMP MAC2	IAFEX	TELEX	DATADEF	DATAMAP
COMCRDS	CDNTROL SFS LISTER	CDPYC SUBMIT	CPMEM SYSEDT	DDCMNT VALNET	EDIT IAFEX	LIST80 TELEX	LD72 DATADEF	MODIFY DBFORM	MODVAL LIBTASK	OPLEDIT TAF	RESEQ DSDI
COMCRDW	BLANK CPMEM LIBEDIT PFDUMP RESTART DATAMAP UPMOD	CATALOG DAYFILE LIBGEN PFLDAD SFS DBFORM DEBUG	CATLIST DFTERM LIST80 PROFILE SDRT KTSMP E200CP	CHARGE DDCMNT LD72 PURGALL SUBMIT LIBTASK CIDTEST	CHKPT EDIT MODIFY QDUMP SYSEDT TAF LISTER	CDNTROL FCOPY MODVAL QFSP VALNET BDMI MODLIST	CONVERT GTR OPLEDIT QLOAD VERIFY DEMUX ACPD	CDPYB HELP PACK QMOVE VFYLIB DSDI MAC2	COPYC ISF PFATC QREC IAFEX MST	COPY67 KRONREF PFCAT RESEQ TELEX SCRSIM	COPY76 LDI PFCOPY RESEX DATADEF STIMULA
COMCRSP	ACCFAM	MODVAL	PFILES								
COMCRTN	VALNET	TELEX	TAF								
COMCSCB	CATLIST	PFATC	PFCAT	PFCOPY	PFDUMP	PFLDAD					
COMCSFM	DAYFILE	DFTERM	HELP	ISF	PFDUMP	RESTART	SUBMIT	STIMULA	CIDTEST	MAC2	
COMCSFN	BLANK	CATALOG	CATLIST	CHARGE	CHKPT	CONTRDL	COPYB	CPMEM	DAYFILE	DFTERM	DDCMNT

CROSS REFERENCE OF OPL. COMMON DECK CALLS. DECK	OPL FILE=DPL			SYS. TEXT=NDSTEXT		NDS 1-9E07T/R4A.		79/10/30. 15.07.22.		PAGE	28
	DECK REFERENCES.										
	EOIT MSI QMOVE DATADEF MODLIST	ENQUIRE OPLEOIT QREC QATAMAP ACPD	FNTLIST PFATC RESEX DBFDRM MAC1	HELP PFCAT RESTART KTSOMP	ISF PFCOPY SFS LIBTASK	KRDNREF PFDUMP SYSEDT TAF	LIBEDIT PFLDAD TDUMP BDMI	LISTLB PROFILE VERIFY DSOI	LO72 QOUMP VFYLIB STIMULA	MODIFY QFSP IAFEX PSAMP	MDOVAL QLDAD TELEX BANNER
COMCSNM	COPYB	COPYC	MDOVAL	VERIFY	DBFDRM	TAF	SYSMSG	LOADBC			
COMCSRT	CATALOG	CDPYB	GTR	LIBEDIT	LIBGEN	MODIFY	SYSEDT	VERIFY	VFYLIB		
COMCSSN	CONTROL	SUBMIT									
COMCSST	CATLIST	MSORT	SDRT	SYSEDT	LIBTASK						
COMCSTF	CATALDG PROFILE	CATLIST RESEQ	CHARGE TOUMP	CPMEM KTSOMP	DAYFILE OSOI	EOIT	ENQUIRE	HELP	MDOVAL	PACK	PFILES
COMCSYS	ACCFAM COPY67 FILES LISTLB PACK QFSP SUBMIT QATAMAP STIMULA ODFILE LOAOBC	BLANK COPY76 FNTLIST LIST80 PFATC QLDAO SYSEDT DBFORM UPMOD LISTER MAC2	CATALOG CPMEM GTR LO72 PFATC QMOVE TCOMND KTSOMP QFSORT MEMCALL	CATLIST CPUMLD HELP MAGNET PFCOPY QREC TDUMP LIBTASK DEBUG MODLIST	CHARGE CVLCP INSTALL MFILES PFDUMP RESEQ TRMDEF TAF E200CP QAQAQHT	CHKPT DAYFILE ISF MODIFY PFILES RESEX VALNET BDMI MREC QAQAQI	CDNFIG DFTERM KRDNREF MDOVAL PFLDAD RESTART VERIFY DEMUX XEDIT QAQAQNM	CDNTRDL DDCMENT LDC MSI PFS RDUTE VFYLIB DSOI BANNER QAQAQS	CONVERT EDIT LDI MSORT PRDFILE SETCORE IAFEX LPT BREAK QREWIND	CDPYB ENQUIRE LIBEDIT NOTE PURGALL SFS TELEX MST CIDTEST RUNCPD	COPYC FCOPY LIBGEN DPLEDT QDUMP SORT QATADEF SCR5IM CKMS VFYFL
COMCUPC	LO72	MSI	PFS	LIBTASK	TAF	STIMULA	DEBUG	MREC			
COMCUSB	BLANK MDOVAL BREAK	CHARGE NOTE ASARG	CDNFIG DPLEDT	CDNTRDL PRDFILE	CDPYB QFSP	DAYFILE RESEX	EDIT SFS	ENQUIRE SYSEDT	LIBEDIT TRMDEF	LISTLB LIBTASK	MODIFY DSOI
COMCVFE	QDUMP	QLDAO	QMDVE	QREC							
COMCWOD	CPMEM	MDOVAL	KTSOMP	BDMI	MST	DEBUG	ODFILE	VFYFL	MAC1		
COMCWTC	CATALOG HELP QDUMP DBFORM MODLIST	CATLIST KRDNREF QMOVE KTSOMP	CHARGE LO72 RESEQ LIBTASK	CDNFIG MODIFY SORT BDMI	CDPYB MODVAL SYSEDT DEMUX	DAYFILE DPLEDT TDUMP OSOI	DFTERM PFATC VALNET LPT	DDCMENT PFCAT VERIFY DEBUG	EDIT PFCOPY VFYLIB XEDIT	ENQUIRE PFDUMP DATADEF CIDTEST	FCOPY PFLDAO QATAMAP ODFILE
COMCWTH	CATLIST E200CP	CONVERT LISTER	CDPYB	LIBEDIT	MDOVAL	PFATC	PFCAT	PFCOPY	PFDUMP	PFLDAD	PROFILE
COMCWTO	CHKPT CIDTEST	DDCMENT ODFILE	FNTLIST	RESTART	DBFORM	TAF	BDMI	DEMUX	OSOI	UPMOD	XEDIT
COMCWTS	CONTROL MDOVAL DBFORM	CONVERT NOTE LIBTASK	COPYC DPLEDT DEMUX	DDCMENT PRDFILE OSOI	EOIT RESEQ BANNER	ENQUIRE SUBMIT LISTER	FNTLIST SYSEDT	LIBEDIT TDUMP	LIST80 VALNET	LO72 VERIFY	MODIFY QATADEF
COMCWTH	CATALOG	CATLIST	CHARGE	CHKPT	CDNFIG	CDNTRDL	CONVERT	CDPYB	COPYC	COPY67	CDPY76

\*\*\*NONE\*\*\*



CROSS REFERENCE OF OPL.  
COMMON DECK CALLS.  
DECK

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COMPACS	CIO ILS	FDL	IMS	LFM	MSM	PFM	PFU	QAP	1AJ	IDS	1TA
COMPANS	CIO	FDL	PFU								
COMPBKP	**NONE**										
CDMPCDI	SFM										
CDMPCEA	IMS	SFM	1MR								
CDMPCFP	VMD										
COMPCHI	CALLINT 1TD	QAP DS1	1CD 1TS	1DL CHD	110 1ED	1MT CALLQIS	6DE EYE	6DI QIS	6DP Q26	6MD TMG	1TN
COMPCHL	DSB	6DI	6DP								
CDMPCHM	DID	SET	STL	1LC							
COMPCIB	QAP	QFM	OBP								
CDMPCKP	CIO	QFM	1MR								
COMPCLD	FDL	SFP	SLL	1AJ	IDS	1MT	1TA				
COMPCLX	EXU	1AJ									
CDMPCMA	MSM	SET									
CDMPCMX	CPM	OVJ	1AJ	11D	1SJ	1TA	1TN	1TD	1TP	1TS	1LS
CDMPCDB	QAP	QFM									
CDMPCRA	CIO 1MT	CPM 1LS	FDL DDF	LFM	PFM	PFU	QAC	OAV	ORF	11D	11S
COMPCRS	CIO SFM	CPM TLX	CVL VEJ	DSP HFM	FDL SMP	LFM CPD	PFM	PFU	QFM	RDM	RPV
COMPCTI	CIO	FDL	IMS	PFM	PFU	QFM	SFM	SFP	1CK	CPD	
COMPCUA	CPM 1AJ DDF	CVL 11S EYE	DIS ADC VMD	DSP BAT	026 DOG	PFM DS1	PFU HFM	QFM SMP	SFM WRM	SLL CHD	VEJ CPD
COMPCUN	DSP	LFM									
CDMPCUT	PFU										
CDMPCVI	CPM 1SJ	DSP 1TA	LFM 1TN	QAC 1TD	QFM 1TP	SFM 1TS	0BF XSP	OVJ 1LS	1AJ	11D	1RD
COMPC2D	CIO QAP	DIO QFM	DSO RDM	DSP REC	IMS STL	LFM ORP	MSM 1AJ	OUT 1CJ	PFM 1CK	PFU IDS	QAC 11D

CROSS REFERENCE OF OPL. COMMON DECK CALLS. DECK	OPL FILE=OPL DECK REFERENCES.	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE 32
	1MA 1MB 1MT 1RI 1SP 1TA 5ME 6DI 1TN 1TD 1ED 1LS 1MR DDF TMG				
COMPOTS	IMS PFM QFM SFM				
COMPDV5	DIO OBP IDS				
COMPECX	CPM OVJ 1AJ 1SJ 1TA				
COMPFAT	CPM PFM SFM OAV				
COMPGBN	DSP QFM SFM OVJ				
COMPGJN	1TA				
COMPGTN	CPM RPV TLX 1AJ 1RI 1RO 1TA				
COMPIFR	IMS MSM RDM REC 1CK OMF				
COMPIRA	CIO FDL MSM PFM PFU REC 1IS CPD				
COMPLOA	DIO				
COMPMAC	CALLOIS CALLINT CIO CPM CVL DIO DIS DSD DSP ELM EXU FDL IMS LFM MSM MTR OSB OUT O26 PFM PFU PPR QAC QAP QFM RDM REC RPV SET SFM SFP SLL STL TLX VEJ OAU OAV OBF OBP ODF OFA ORF ORP OVJ 1AJ 1CD 1CJ 1CK 1DL 1DS 1IO 1IS 1MA 1MB 1MC 1MT 1RI 1RO 1SI 1SJ 1SP 1TA 1TO 5ME 6DE 6DI 6DP 6MD 1TN 1TD 1TP ADC BAT DOG DS1 HFM SMP WRM ITS ABC CHD XSP 1ED 1LS OMF 1MR CALLOIS ABP CPD DDF EYE QIS Q26 SPD TMG VMO 1LC				
COMPMKQ	1TN 1TO 1ED				
COMPM5D	6MD				
COMPRBB	QAP QFM				
COMPRCB	QAP				
COMPRCS	SFP 1AJ				
COMPREI	DIS 1AJ 1MA				
COMPREL	OAU OBF ODF OFA ORF ORP 6DI OMF				
COMPRJC	CIO CPM DSD DSP LFM MSM OUT QAC QAP QFM REC SET OVJ 1AJ 1CJ 1DS 1IO 1MA 1RI 1SI 1SJ 1SP 1TA 1TN 1TD 1TP ITS 1LS CPD				
COMPLRI	OAV OBP OVJ				
COMPLRS	1AJ 1CJ 1RI 1RO				
COMPRNS	CIO DSP EXU FDL LFM PFM QFM REC SFP OBP 1AJ				

CROSS REFERENCE OF OPL. COMMON DECK CALLS. DECK	OPL FILE=OPL DECK REFERENCES.	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	33
	1DL 1DS 1MT 1RI 1TA					
COMPRSI	OIS 1LS MSM QIS 026 1AJ 1IO 1MA 1SI 1TA 1TN 1TO 1TP					
COMPRSS	CIO REC CPM SFM DSP SLL IMS 1AJ LFM 1CJ MSM 1DS OUT 1MA PFM 1SP PFU 1LS QAC 1MR QFM					
COMPSAF	OSP 1MT EXU CPD FOL LFM PFM QAC QFM SFM SFP 1AJ 1IS					
COMPSCA	PFM PFU ODF					
COMPSDI	IMS SFM					
COMPSON	PFM PFU					
COMPSEI	CIO SLL DSP 1CJ LFM 1IS MSM 1TA OUT 1TO PFM XSP PFU ODF QFM REC SFM SFP					
COMPSES	DSD IMS MSM PFM 1CK					
COMPSFB	OSP FOL LFM PFM QFM SFM SFP 1AJ 1MT 1TP CPD					
COMPSFE	CPM MSM 1TA ODF					
COMPSFI	OIS QAC QFM 1AJ 1CJ 1DS 1MA 1RO 1SJ 1TA 1LS					
COMPSFN	REC					
COMPSNT	CIO MSM PFM PFU 1IS CPD ODF					
COMPSPA	1AJ 1OS 1RI 1TA 1TO					
COMPSRA	CIO LFM PFM PFU 1CJ					
COMPSRU	CPM					
COMPSSE	CIO 1SP DSP 1LS LFM 1MR OUT QAC QFM 1AJ 1CJ 1IO 1MA 1RI					
COMPSSE	CPM PFM					
COMPSTA	CPM DSD TLX 1AJ 1RI 1RO 1TA 1TO					
COMPSTI	CIO FDL IMS PFM PFU QFM SFM SFP 1CK 1MR CPD					
COMPSUT	PFU					
COMPTGB	DSD IMS MSM PFM 1CK 1IS					
COMPTLB	DSD IMS MSM 1CK 1IS					
COMPUPP	1AJ 1OS 1RI 1TA 1TO					
COMPUPS	1AJ 1TA					

CROSS REFERENCE OF OPL. COMMON DECK CALLS. DECK	OPL FILE=OPL DECK REFERENCES.	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	34
COMPUSS	CIO DSP LFM OUT QFM 1CJ					
COMPVFC	DSP QAC					
COMPVEN	CIO CPM DSP LFM MSM PFM QFM SFM					
COMPVMS	VMO					
COMPWBB	QAP QFM OBP 1CD					
COMPWCB	**NONE**					
COMPWEI	CIO DSP LFM MSM PFM PFU REC SFM SFP SLL VEJ 1CJ 1CK 1DS 1IS 1RO 1TA 1TO XSP 1MR CPD					
COMPWSS	CIO DSP IMS LFM MSM OUT PFM PFU QFM REC SFM SLL VEJ 1AJ 1CJ 1CK 1DS 1IS 1MA 1RO 1TA XSP					
COMPWVE	IMS PFU					
COMP3XD	**NONE**					
COMSACC	CALLPPU CPM DSP LFM MSM PFM QAC QAP REC SET OAV 0BF OVJ 1AJ 1IO 1MA 1RO 1SI 1SJ 1TA ACCFAM CPUMTR ISF MODVAL PFCAT PFLOAD PROFILE QREC 1TN IAFEX 1TD TELEX 1TP ITS XSP 1LS					
COMSBIO	CALLPPU DSD QAP OBP 1CD 1IO DSDI					
COMSCIO	CALLPPU CIO QAP 1MT MAGNET					
COMSCPD	CPD RUNCPD ACPD					
COMSCPS	CALLPPU CIO CPM DIS DSD DSP ELM FDL IMS LFM MSM OUT PFM PFU PPR QAC QAP QFM RDM REC SET SFM SFP TLX VEJ OAU OAV OBF ODF OFA ORP 1AJ 1CD 1CJ 1CK 1DS 1IS 1MA 1MB 1RI 1RO 1SJ 1TA 6DE 6DI CPUMTR IAFEX TELEX XSP 1LS OMF 1MR CPD DDF QIS RUNCPD VMO ACPD					
COMSDSL	CALLPPU DIO DSD IMS MSM OSB OUT REC SET SLL STL 1CK 1IS MSI ABC					
COMSESS	CETEXT CVL SET MSI					
COMSEVT	CPM DSD IMS LFM MSM PFM PFU ORP 1DS 1MT 1SP 1TA CONTROL RESEX CPD MAC2					
COMSEXP	DSD DSDI XSP 1ED 1LS E200CP					
COMSTQQ	CALLCPU IMS MSM QFM REC SFM DFTERM LDI MSI QDUMP QFSP QLOAD QMOVE QREC SUBMIT TAF 1MR					
COMSJCE	CPM OVJ 1AJ 1MA					

CROSS REFERENCE OF DPL. OPL FILE=DPL SYS. TEXT=NDSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 35  
 COMMDN DECK CALLS. DECK DECK REFERENCES.

COMSJIO	CALLPPU ICD	CID ICJ	DSP FNTLIST	IMS QDUMP	LFM QFSP	MSM QMDVE	OUT QREC	QAC RROUTE	QAP XSP	QFM ILS	IAJ
COMSJRD	IAJ	IRI	IRD	ITA	ITD						
COMSLDR	BDMI										
COMSLFM	LFM	COPYB	PFLDAD	VERIFY							
COMSLSD	DSD	IMS	MSM	PFM	RDM	SET	ICK	ISP	CPUMTR	MSI	
COMSMHF	CALLPPU CPUMTR	IMS PFDUMP	MSM OMF	PFM IMR	QFM MAC2	RDM	REC	SET	SFM	ICK	IDS
COMSMRT	IMR	MREC									
COMSMSC	MTR DSDI	PPR ACPD	REC	SET	SFP	SLL	STL	IAJ	IMT	ITA	TAF
COMSMSI	CALLPPU	IMS	MSI								
COMSMSP	CALLPPU OUT SLL IDS 6DI DDF	CID PFM VEJ IID 6DP	CVL PFU OAU IIS 6MD	DIO PPR OAV IMA CONTRDL	DSP QAC OBP IMT CPUMTR	EXU QFM ORF IRI MSI	FOL RDM ORP IRO DSDI	IMS REC IAJ ISP MST	LFM SET ICJ ITA XSP	MSM SFM ICK ITO OMF	MTR SFP IDL 6DE IMR
COMSMST	DSD	IMS	MSM	PFM	REC	ICK	IIS				
COMSMTR	MTR	CPUMTR									
COMSMTX	CID MAGNET	DIS PFLDAD	DSD RESEX	LFM VERIFY	REC TAF	SFP DSDI	ORF CPD	IDS TMG	IMT	CDPYB	CPUMTR
COMSNCD	ITD	IAFEX	TAF	SEND	TERMDEF						
COMSNET	CALLCPU	VALNET	IAFEX	TELEX	TAF						
COMSPFM	CALLCPU OFA MSI SUBMIT DDF	CALLPPU ORP PFATC IAFEX MAC2	CID IAJ PFCAT TELEX CATACC	IMS ICK PFCOPY DATADEF MAPACC	MSM ISI PFDUMP DBFORM ASDEF	PFM ITA PFILES KTSOMP ASLABEL	PFU CATLIST PFLDAD TAF ASMOVE	REC CHARGE PROFILE BDMI ASUSE	SFM DFTERM PURGALL STIMULA ASVAL	OAU ISF RESEX IMR EXINIT	OAV MODVAL RESTART XEDIT
COMSPFS	MSI	PFATC	PFCAT	PFCOPY	PFDUMP	PFLDAD	PFS	MREC	MAC2		
COMSPFU	CALLPPU	PFU	MSI	PFATC	PFCAT	PFCOPY	PFDUMP	PFLDAD	PFS	MAC2	
COMSPRD	CID QAP IAJ ISJ MODVAL IAFEX	CPM QFM ICK ISP PFATC ITD	DSD RDM IDS ITA PFCAT TELEX	DSP REC IID ACCFAM PFCOPY ITP	IMS SET IIS CATLIST PFDUMP LIBTASK	LFM SLL IMA CHARGE PFLDAD TAF	MSM TLX IMB CONFIG PFS BEGIN	MTR VEJ IMT CPUMTR QFSP BLDABH	PFM OBP IRI CVLCP RESEX CALLRTN	PFU ORF IRO INSTALL SYSEDIT CHKON	QAC OVJ ISI ISF ITN CMDUMP



COMMON DECK CALLS.  
DECK DECK REFERENCES.

COMTDP6	110			
COMTDP9	110			
COMTNAP	MODVAL			
COMTVDT	110	TRMDEF	IAFEX	
COMT6DP	110			
COMT8AD	QAP			
COMT9DP	110			
COMUCTW	ASMOVE	ASVAL		
COMUDEF	ASDEF			
COMUDFP	ASARG	ASDEF		
COMUERR	ASLABEL			
COMUFMT	RFORM			
COMULAB	ASLABEL			
COMULBP	ASARG	ASLABEL		
COMUMOV	ASMOVE			
COMUMVP	ASARG	ASMOVE		
COMUOUT	RFORM	ASLABEL	ASMOVE	ASUSE
COMUSIT	ASMOVE			
COMUUSE	ASUSE			
COMUUSP	ASARG	ASUSE		
COMUVLD	ASVAL			
COMUVLF	ASVAL			
COMUVLM	ASVAL			
COMUVLP	ASARG	ASVAL		
COMUVLV	ASVAL			
COMUVLX	ASVAL			
COMZCBP	EXINIT			
COMZCBT	EXINIT			

CROSS REFERENCE OF OPL. DPL FILE-OPL  
COMMON DECK CALLS.  
DECK DECK REFERENCES.

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COMZCDD	EXINIT	
COMZCPG	**NONE**	
COMZERB	EXINIT	
COMZITH	EXINIT	
COMZLOC	EXINIT	
COPYRT	DSD	
CPCOM	NOSTEXT	SYSTEXT
OMABZF;	EXINIT	
OMACHN;	EXINIT	
OMACMD;	EXINIT	
OMACHS;	ASDEF	EXINIT
OMAFET;	EXINIT	
OMALRQ;	EXINIT	
OMAMAT;	EXINIT	
OMAMCT;	EXINIT	
OMAMSS;	EXINIT	
OMAPFP;	EXINIT	
OMATDM;	EXINIT	
OMEACH;	EXINIT	
OMEBST;	EXINIT	
OMECTF;	EXINIT	
OMEEXP;	EXINIT	
OMEFCQ;	EXINIT	
OMEHLR;	EXINIT	
OMEINT;	EXINIT	
OMELTC;	EXINIT	
OMEMSC;	EXINIT	
OMSPFH;	EXINIT	

CROSS REFERENCE OF OPL. OPL FILE=OPL SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A. 79/10/30. 15.07.22. PAGE 39  
COMMON DECK CALLS.  
DECK DECK REFERENCES.

OMUDFP;	ASDEF	
OMUVLP;	ASVAL	
OMUVLX;	ASVAL	
OMZCBP;	EXINIT	
OMZCBT;	EXINIT	
OMZERB;	EXINIT	
PPCOM	PPTXT	NOSTEXT

CROSS REFERENCE OF OPL.	OPL FILE=OPL	SYS. TEXT=NOSTEXT	NOS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	40
PP PACKAGES CALLED.						
DECK	DECK REFERENCES.					
ABC	**NONE**					
ABP	BREAK					
ADC	**NONE**					
BAT	**NONE**					
BCL	STL					
CALLDIS	**NONE**					
CALLINT	**NONE**					
CALLPPU	**NONE**					
CALLQIS	**NONE**					
CHD	**NONE**					
CIO	QAP	IAJ	ICD	110	SMP	1LS Q26
CODING	**NONE**					
CPD	RUNCPD					
CPM	SFP	PFS	TAF			
CVL	**NONE**					
DDF	**NONE**					
DIO	**NONE**					
DIS	**NONE**					
DUG	**NONE**					
DSD	**NONE**					
DSP	QAP	QDUMP	QLOAD	QMOVE		
DS1	**NONE**					
EXU	**NONE**					
EYE	**NONE**					
FDL	**NONE**					
HFM	SCRSIM					
IMS	CONFIG	MSI				
LFM	SFP					

CROSS REFERENCE OF OPL. OPL FILE=OPL  
PP PACKAGES CALLED.

SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A.

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DECK DECK REFERENCES.

MSM	**NONE**
MTR	**NONE**
OSB	**NONE**
OUT	FILES Q26
Q26	DIS
PFM	**NONE**
PFU	**NONE**
QAC	110 FNTLIST ILS
QAP	1CD
QFM	**NONE**
QIS	Q26
Q26	QIS
RDM	CONFIG
REC	**NONE**
RPV	**NONE**
SET	**NONE**
SFM	DFTERM
SFP	**NONE**
SLL	SYSEDIT
SMP	**NONE**
SPD	**NONE**
STL	**NONE**
TCS	1AJ
TLX	**NONE**
TMG	**NONE**
VEJ	QLOAD QMOVE
WRM	**NONE**
XSP	ILS

CROSS REFERENCE OF OPL. PP PACKAGES CALLED. DECK		UPL FILE=OPL DECK REFERENCES.		SYS. TEXT=NDSTEXT	NDS 1-9E07T/R4A.	79/10/30. 15.07.22.	PAGE	42
OAU	CPM	1AJ	1CJ	1RD	1SP	1TA		
OAV	CPM	DSP	LFM	PFM	QAC	QFM	VEJ	OVJ
OBF	CIO	DSP	LFM	PFM	PFU	QAP	QFM	SFM
	1CJ	1DS	1IS	1RD	1TP	XSP		1TA
OBP	QAP	1LS						
OCI	REC	1MR						
ODF	CIO	DSP	LFM	PFM	QAC	QFM	REC	SFM
	1CJ	1DS	1MT	1RI	1RD	1TA	1TP	1LS
OFA	PFU	ODF						
OMF	MSM							
OPI	CVL	IMS	MSM	REC	1IS	DDF		
ORF	PFM	REC	ODF	1CJ	1TA			
ORP	ODF							
OTI	IMS	MSM						
OVJ	DSP	QAP	QFM	VEJ	XSP			
1AJ	DIS	1AJ	1MT	1RI	1RD	1SJ	SMP	1LS
1CD	***NONE**							
1CJ	1AJ							
1CK	DSD	1MB						
1DD	REC	SLL	STL					
1DL	DIS	DSD	1TN	1TD	DOG	1LS	QIS	Q26
1DS	DSD							
1ED	1LS							
1IU	***NONE**							
1IS	***NONE**							
1LC	***NONE**							
1LS	1ED							
1MA	***NONE**							
1MB	***NONE**							

CROSS REFERENCE OF OPL. OPL FILE=OPL  
PP PACKAGES CALLED.  
DECK DECK REFERENCES.

SYS. TEXT=NOSTEXT

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1MC	**NONE**
1MR	**NONE**
1MT	**NONE**
1RI	1AJ 1SJ
1RO	1AJ
1RP	1TN 1TD
1SI	**NONE**
1SJ	**NONE**
1SP	**NONE**
1TA	**NONE**
1TD	1TD
1TN	1TN
1TO	**NONE**
1TP	**NONE**
1TS	**NONE**
2LD	FDL
2MA	1MA
2MB	1MA
2MC	1MC
2MD	1MB
2RP	RPV
2TD	1TD
2TN	1TN
2TO	1TO
3AA	1AJ
3AB	1AJ
3AC	1AJ
3AD	1AJ

CROSS REFERENCE OF OPL. OPL FILE=OPL  
PP PACKAGES CALLED.

SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A.

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DECK DECK REFERENCES.

3AE	1AJ
3AF	1AJ
3AG	1AJ
3AH	1AJ
3BA	QAP
3BB	QAP
3BC	QAP
3BD	QAP
3BE	QAP
3BF	QAP
3CK	1CK
3IA	110
3IB	110
3IC	110
3ID	110
3MA	1MT
3MB	1MT
3ME	1MT
3MF	1MT
3PA	PFM
3PB	PFM
3PC	PFM
3PD	PFM
3PE	PFM
3PF	PFM
3PG	PFM
3PH	PFM
3PI	PFM

CROSS REFERENCE OF OPL. OPL FILE=OPL  
PP PACKAGES CALLED.  
DECK DECK REFERENCES.

SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A.

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3PJ	PFM	
3PK	PFM	
3PL	PFM	
3PM	PFM	
3PN	PFM	
3PO	PFM	
3PP	PFM	
3QR	OAC	
3RF	1RI	
3RG	1RI	
3RH	1RI	
3RI	1RI	
3RP	1RO	
3RQ	1RO	
3SA	1SJ	
3SZ	SFM	
4DA	MSM	REC
4DB	MSM	
4DC	MSM	
4DD	REC	
4DE	REC	
4DF	MSM	
4DG	MSM	
4DH	MSM	
5BA	QAP	
5BB	QAP	
5IA	110	
5IC	110	

CROSS REFERENCE OF OPL. OPL FILE=OPL  
PP PACKAGES CALLED.

SYS. TEXT=NOSTEXT NOS 1-9E07T/R4A.

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DECK DECK REFERENCES.

5ID	110		
5IE	110		
5IG	110		
5IH	110		
5ME	DSD	MSM	ICK
6DE	**NONE**		
6DI	**NONE**		
6DP	**NONE**		
6MD	**NONE**		
7SE	IDL		



	CODING											
#	COMAUCR											
CLO	CIOTEST											
CTI	ITASK	KDIS										
DMD	TAF											
DMP	MAGNET	IAFEX	TELEX	BDMI								
ELM	COMCECS											
LDR	COPYB	MODIFY	DATADEF									
RSB	CONFIG QLOAD	DFTERM QMOVE	ENQUIRE QREC	ISF IAFEX	MSI TELEX	PFCAT DSDI	PFDUMP SCRSIM	PFLOAD HREC	PFS LOADBC	QDUMP MAC2	QFSP	
SCT	CALLTSK	CEASE	KDIS									
SIC	COMKTLX	LIBTASK	TAF									
SPC	INSTALL	IAFEX	TELEX	TAF	STIMULA	E200CP	HREC	LOADBC				
VMO	CKMS											

CROSS REFERENCE OF OPL. OPL FILE=OPL  
PROGRAM LIBRARY STATISTICS.

SYS. TEXT=NOSTEXT

NOS 1-9E07T/R4A.

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70332 BLANK STATEMENTS.

3948 \*CALL STATEMENTS.

437890 LINES OF CODE.

152718 \* TYPE COMMENT STATEMENTS.

34306 TOTAL INACTIVE STATEMENTS.

664888 TOTAL ACTIVE STATEMENTS.

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| LOWER CYBER SYSTEMS PROGRAMMING STANDARD  
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## 1.0 INTRODUCTION

### 1.1 SCOPE OF DOCUMENT

#### 1.1.1 PURPOSE

THIS DOCUMENT ESTABLISHES THE STANDARD PROCEDURES TO BE USED BY PROGRAMMERS IN THE DEVELOPMENT AND MAINTENANCE OF PROGRAMS.

THIS DOCUMENT SHOULD BE USED BY PROGRAMMERS AS A REFERENCE MANUAL OF STANDARD PROGRAMMING PROCEDURES. THE IMPLEMENTATION OF THESE PROCEDURES WILL INCREASE THE EFFICIENCY OF PROGRAM DEVELOPMENT, IMPROVE THE RELIABILITY AND MAINTAINABILITY OF THE PROGRAM AND AID IN THE TRAINING OF PERSONS WHO WILL BE MAINTAINING OR USING THE PROGRAM.

#### 1.1.2 SCOPE OF USE

THE PROCEDURES DEFINED IN THIS DOCUMENT ARE APPLICABLE TO THE FOLLOWING OPERATING SYSTEMS AND THEIR RELATED SUBSYSTEMS:

SCOPE 3.4.N  
NOS/BE  
NOS

CODE WHICH IS COMMON TO BOTH OPERATING SYSTEMS WILL USE ASSEMBLY OPTIONS TO SPECIALIZE THE CODE WHERE THERE ARE DIFFERENCES IN THESE PROCEDURES.

### 1.2 CONFORMANCE AND ENFORCEMENT

THE PROCEDURES DEFINED IN THIS DOCUMENT ARE USED IN ALL NEWLY DEVELOPED PROGRAMS. IN EXISTING PROGRAMS THESE PROCEDURES SHOULD BE USED IF THEY ARE NOT INCONSISTENT WITH THE EXISTING PROCEDURES. IF MAJOR CHANGES (SUCH AS A REWRITTEN SUBROUTINE OR A NEW OVERLAY) ARE MADE TO A PROGRAM, THESE PROCEDURES ARE TO BE USED FOR THE CHANGES.

PROGRAMS WHICH DO NOT CONFORM TO THESE REQUIREMENTS WILL BE RETURNED TO THE PROGRAMMER FOR CORRECTION.

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## 2.0 DOCUMENTATION

### 2.1 INTRODUCTION

DOCUMENTATION IS THE PRESENTATION OF INFORMATION ABOUT A PROGRAM IN EASILY UNDERSTANDABLE FORM SO THAT THOSE WHO NEED TO UNDERSTAND THE PROGRAM DO NOT NEED TO STUDY THE PROGRAM ITSELF. THIS REDUCES THE TIME CONSUMED FROM DAYS OR WEEKS TO JUST MINUTES OR HOURS.

THE PROGRAM DOCUMENTATION PRESENTED IN THIS STANDARD IS EMBEDDED WITHIN THE SOURCE LANGUAGE OF EACH PROGRAM. THE DOCUMENTATION IS DESIGNED TO BE EXTRACTABLE BY THE STANDARD DOCUMENTATION PROCESSING PROGRAM. THIS APPROACH SERVES TO UNIFY THE PROGRAM AND ITS DOCUMENTATION, MAKING IT EASIER AND MORE NATURAL TO UPDATE THE DOCUMENTATION AS CHANGES ARE MADE TO THE CODE.

THE EFFECTIVENESS OF DOCUMENTATION IS JUDGED BY ITS SUCCESS IN MEETING THE NEEDS OF THOSE WHO USE IT. THIS INTRODUCTION DEFINES FOUR DISTINCT NEEDS FOR DOCUMENTATION WHICH ARISE DURING THE LIFE OF A SOFTWARE PRODUCT. SECTIONS 2.3 THROUGH 2.5 DEFINE THREE LEVELS OF DOCUMENTATION (PROGRAM LEVEL, SUBROUTINE LEVEL AND CODE LEVEL) WHICH TOGETHER MEET THESE NEEDS.

SECTION 2.6 GIVES EXAMPLES OF PROPER DOCUMENTATION.

#### 2.1.1 DESIGN OVERVIEW

ANYONE WANTING TO KNOW THE STRUCTURE OF THE SYSTEM, OR SOME FUNCTIONAL AREA, DOES NOT WANT A LOT OF DETAILED INFORMATION WHICH WILL MAKE THE TASK MORE DIFFICULT. ONE SHOULD BE ABLE TO ASK THE QUESTION:

WHAT IS THE FUNCTION OF THIS PROGRAM.

AND GET AN ANSWER THAT IS BRIEF AND TO THE POINT. IT SHOULD NOT CONTAIN ANY INFORMATION ABOUT THE INPUT PARAMETERS, OPTIONS, ERROR CONDITIONS, OR INTERNAL WORKINGS OF THE PROGRAM.

#### 2.1.2 EXTERNAL INTERFACE

ANYONE WHO KNOWS THE FUNCTION OF A PROGRAM AND WANTS TO KNOW HOW TO INTERFACE TO THE PROGRAM NEEDS TO KNOW THE FORM OF THE CALL, WHAT PARAMETERS TO SUPPLY, WHAT INFORMATION IS RETURNED, AND WHAT IS ACCOMPLISHED. ONE SHOULD BE ABLE TO ASK THE QUESTION:

HOW IS THIS PROGRAM USED.

AND GET AN ANSWER THAT LISTS THE PARAMETER DEFINITIONS, FORMATS,

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AND CONTENTS, THE INITIAL CONDITIONS OF BUFFERS AND DEVICES, ANY STATUS AND CONDITION INFORMATION, A LIST OF OTHER PROGRAMS CALLED, AND A COMPLETE LIST OF ERROR CODES, ERROR MESSAGES ISSUED AND PARAMETERS RETURNED. A GENERAL DESCRIPTION OF THE ACTIONS TAKEN SHOULD BE INCLUDED FOR EACH FUNCTION PERFORMED THAT IS RECOGNIZABLE BY THE CALLING PROGRAM.

### 2.1.3 INTERNAL OPERATION

ANYONE WORKING ON A MODIFICATION OR ENHANCEMENT TO THE SYSTEM NEEDS A GENERAL KNOWLEDGE OF THE INTERNAL OPERATION OF A PROGRAM. THIS REQUIRES FINDING OUT WHERE WITHIN THE PROGRAM SOME FUNCTION IS PERFORMED AND HOW IT IS PERFORMED. ONE SHOULD BE ABLE TO ASK THE QUESTION:

HOW DOES THIS PROGRAM WORK.

AND GET AN ANSWER THAT INCLUDES A DESCRIPTION OF THE LOGICAL FLOW AND STRUCTURE OF THE PROGRAM, THE ALGORITHMS USED AND THE FUNCTION PERFORMED BY EACH OVERLAY OR SUBROUTINE IN THE PROGRAM.

### 2.1.4 DETAILED CODE ANALYSIS

ANYONE ATTEMPTING TO MODIFY THE PROGRAM OR ESTABLISH A KNOWLEDGE OF THE DETAILED OPERATION OF A PROGRAM USES THE LISTING. DOCUMENTATION SHOULD BE PROVIDED IN THE LISTING TO AID IN FOLLOWING THE FLOW OF THE PROGRAM WITHOUT READING ALL OF THE CODE. THIS DOCUMENTATION CONSISTS OF COMMENTS WITHIN THE CODE ITSELF. COMMENTS DESCRIBING THE FUNCTION OF LOGICAL GROUPS OF INSTRUCTIONS SHOULD BE PROVIDED, AND COMMENTS DOCUMENTING TABLE STRUCTURES, DATA AREAS, AND CONSTANTS SHOULD APPEAR ON THE INSTRUCTIONS WHICH DEFINE THEM. ONE SHOULD BE ABLE TO ASK THE QUESTION:

WHAT SHOULD I KNOW WHEN MODIFYING THIS PROGRAM.

AND GET BACK AN ANSWER WITH ALL THE DETAIL NEEDED TO MAKE THE MODIFICATIONS WITHOUT ADVERSELY AFFECTING EXISTING PROGRAM FUNCTIONS.

## 2.2 GENERAL REQUIREMENTS

### 2.2.1 ABBREVIATIONS

THE ABBREVIATIONS FOR TECHNICAL TERMS WHICH ARE TO BE USED IN PROGRAM DOCUMENTATION ARE LISTED IN APPENDIX A. ALL OTHER TECHNICAL WORDS AND PHRASES ARE COMPLETELY SPELLED OUT. ROUTINE NAMES AND MNEMONIC NAMES OF TABLES AND EQUIPMENTS ARE NOT CONSIDERED ABBREVIATIONS.

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A PROGRAM WHOSE DOCUMENTATION MAKES EXTENSIVE USE OF TERMS NOT IN THIS LIST MAY DEFINE A LIST OF ABBREVIATIONS AND INCLUDE IT IN THE FIRST SECTION OF THE INTERNAL DOCUMENTATION FOR THE PROGRAM. SUCH ABBREVIATIONS MAY NOT BE USED IN THE PROGRAM OVERVIEW OR EXTERNAL DOCUMENTATION.

THE FOLLOWING STANDARD SYMBOLS ARE USED IN THE DOCUMENTATION WHEN EXPRESSING LOGICAL AND ARITHMETIC COMPARISONS:

.NOT.	LOGICAL INVERSE
.XOR.	EXCLUSIVE OR
.AND.	LOGICAL PRODUCT
.OR.	LOGICAL DIFFERENCE
.NE.	NOT EQUAL TO
.LE.	LESS THAN OR EQUAL TO
.GE.	GREATER THAN OR EQUAL TO
.LT.	LESS THAN
.GT.	GREATER THAN
=	EQUAL TO
()	CONTENTS OF

#### 2.2.2 PUNCTUATION

ALL DOCUMENTATION AND COMMENT CARDS CONTAIN COMPLETE ENGLISH SENTENCES WITH CORRECT PUNCTUATION. EXCEPTIONS ARE ALLOWED IN SUBROUTINE HEADINGS (SEE SECTION 2.4) AND IN EMBEDDED COMMENTS (SEE SECTION 2.5.2). TITLES (SUCH AS 'ASSEMBLY CONSTANTS.') SHOULD END WITH A PERIOD BUT NEED NOT BE COMPLETE SENTENCES. EACH COMMENT (EXCLUDING EMBEDDED COMMENTS) SHOULD END WITH A PERIOD EVEN IF IT IS NOT A SENTENCE.

CORRECT PUNCTUATION MEANS THE SAME PUNCTUATION AS REQUIRED IN WRITTEN ENGLISH. HOWEVER, THE APOSTROPHE PRESENTS PROBLEMS DUE TO CHARACTER SET AND PRINT TRAIN DIFFERENCES, AND PLURALS OF ABBREVIATIONS ARE NOT READABLE WITHOUT UPPER AND LOWER CASE. THEREFORE, PLURALS AND POSSESSIVE FORMS OF ABBREVIATED TERMS ARE TO BE AVOIDED. AUTHORIZED ABBREVIATIONS (SEE SECTION 2.2.1) ARE MADE PLURAL BY ADDING A HYPHEN AND THE LETTER 'S' (E.G. PPU-S).

IF AN UPPER CASE ITEM IS TO BE INDICATED IN THE DOCUMENTATION, IT IS ENCLOSED WITHIN ASTERISKS. UPPER CASE IS USED FOR NAMES OF FILES, PROGRAMS, CALLING PARAMETERS, SUBROUTINE TAGS, TABLE NAMES AND ANY OTHER WORDS THAT ARE NORMALLY CAPITALIZED.

#### 2.2.3 FORMATS

DOCUMENTATION LINES CONTAIN ONLY ASTERISKS AND BLANKS IN THE FIRST TEN COLUMNS AND TEXT IN COLUMNS 11 THROUGH 71. THE TEXT IS WRITTEN USING CORRECT ENGLISH EXCEPT WHERE SPECIFICALLY NOTED. THE FORMAT FOR EACH OF THE VARIOUS TYPES OF DOCUMENTATION IS SHOWN BELOW. LATER SECTIONS DEFINE THE USAGE OF EACH TYPE OF DOCUMENTATION.

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OVERVIEW - ASTERISKS IN COLUMNS 1 THROUGH 5 (\*\*\*\*\*). THIS CARD INDICATES THAT THIS AND THE FOLLOWING CONTIGUOUS COMMENT CARDS MAKE UP THE PROGRAM OVERVIEW DOCUMENTATION.

EXTERNAL - ASTERISKS IN COLUMNS 1 THROUGH 3 (\*\*\*). THIS CARD INDICATES THAT THIS AND THE FOLLOWING CONTIGUOUS COMMENT CARDS ARE TO BE INCLUDED IN THE PROGRAM EXTERNAL DOCUMENTATION.

INTERNAL - ASTERISKS IN COLUMNS 1 AND 2 (\*\*). THIS CARD INDICATES THAT THIS AND THE FOLLOWING CONTIGUOUS COMMENT CARDS ARE TO BE INCLUDED IN THE PROGRAM INTERNAL DOCUMENTATION.

INTERNAL BRACKET - ASTERISKS IN COLUMNS 1 THROUGH 4 (\*\*\*\*). THIS CARD AND ALL OTHER CARDS UP TO AND INCLUDING THE NEXT OCCURRENCE OF THIS CARD ARE TO BE INCLUDED IN THE PROGRAM INTERNAL DOCUMENTATION.

OTHER COMMENT - ASTERISK IN COLUMN 1 (\*). THIS TYPE OF COMMENT IS USED FOR CONTINUATION OF THE ABOVE TYPES OF DOCUMENTATION. IT IS ALSO USED FOR STAND-ALONE COMMENTS (SEE SECTION 2.5.1).

TABLE - ASTERISK IN COLUMN 1, T IN COLUMN 2 (\*T). THIS CARD INDICATES TABLE DOCUMENTATION. THE \*T CARDS MUST APPEAR WITHIN A SET OF CONSECUTIVE COMMENT STATEMENTS BEGINNING WITH AN EXTERNAL (\*\*\*) OR INTERNAL (\*\*) STATEMENT.

BLANK COMMENT CARD - A CARD WITH AN ASTERISK IN COLUMN 1 (\*) AND BLANKS IN COLUMNS 2 THROUGH 71 IS CALLED A 'BLANK COMMENT CARD' AND IS USED AS A SEPARATOR TO IMPROVE READABILITY OF DOCUMENTATION.

#### 2.2.4 FORMAT OF ITEMIZED DOCUMENTATION

DOCUMENTATION WHICH CONTAINS SEVERAL SEPARATE ITEMS OF INFORMATION (AS FOUND IN SECTIONS 2.3.1, 2.3.2, 2.3.3 AND 2.4) CONTAINS A BLANK COMMENT CARD BETWEEN THE ITEMS. EACH ITEM ENDS WITH A PERIOD. IF AN ITEM IS NOT APPLICABLE IT IS OMITTED FROM THE DOCUMENTATION. THE ITEMS ARE PLACED IN THE ORDER SPECIFIED AND THE LAST ITEM IS FOLLOWED BY A SPACE 4,10 CARD.

#### 2.3 PROGRAM LEVEL DOCUMENTATION

EVERY PROGRAM CONTAINS COMMENT CARDS WHICH MAKE UP THE PROGRAM LEVEL DOCUMENTATION (AS DEFINED IN THIS SECTION). THIS LEVEL OF DOCUMENTATION MAY BE USED WITH THE PROGRAM LISTING OR WITHOUT IT (USING EXTRACTED DOCUMENTATION PRODUCED BY A DOCUMENTATION PROCESSOR). EVEN WITHOUT THE LISTING, THE PROGRAM LEVEL DOCUMENTATION SATISFIES THE DESIGN OVERVIEW, EXTERNAL INTERFACE

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AND INTERNAL OPERATION DOCUMENTATION NEEDS DISCUSSED IN SECTION 2.1.

### 2.3.1 OVERVIEW

THE OVERVIEW DOCUMENTATION IS PLACED IMMEDIATELY FOLLOWING THE COMPASS GROUP 1 INSTRUCTIONS AND BEFORE ANY OTHER DOCUMENTATION, MACRO DEFINITIONS OR EXECUTABLE CODE (SEE SECTION 3.2). IT CONSISTS OF AN OVERVIEW CARD (SEE SECTION 2.2.3) WHICH CONTAINS THE PROGRAM NAME AND A BRIEF DESCRIPTION OF THE PROGRAM, AND ADDITIONAL COMMENT CARDS WHICH CONTAIN THE FOLLOWING ITEMS OF DATA (SEE SECTION 2.6 FOR THE LAYOUT OF THESE ITEMS):

- . NAME OF AUTHOR AND DATE WRITTEN (YY/MM/DD).
- . NAMES OF AUTHORS OF MAJOR MODIFICATIONS, WITH DATES.
- . TEXT OF OVERVIEW OF PROGRAM.

THE TEXT OF THE OVERVIEW SHOULD FOLLOW THE GENERAL DEFINITION OF DESIGN OVERVIEW DOCUMENTATION IN SECTION 2.1. THE OBJECTIVE IS TO DESCRIBE THE FUNCTION OF THE PROGRAM IN GENERAL TERMS.

### 2.3.2 EXTERNAL

THE EXTERNAL DOCUMENTATION IS PLACED IMMEDIATELY FOLLOWING THE OVERVIEW DOCUMENTATION AND BEFORE ANY INTERNAL DOCUMENTATION, MACRO DEFINITIONS OR EXECUTABLE CODE (SEE SECTION 3.2). IT CONSISTS OF AN EXTERNAL DOCUMENTATION CARD (SEE SECTION 2.2.3) AND ADDITIONAL COMMENT CARDS WHICH TOGETHER CONTAIN THE FOLLOWING ITEMS OF DATA (SEE SECTION 2.6 FOR THE LAYOUT OF THESE ITEMS):

- . DETAILED DESCRIPTION OF FUNCTIONS AND OPTIONS.
- . ENTRY CONDITIONS, INCLUDING PARAMETERS AND INITIAL CONDITIONS OF BUFFERS AND EXTERNAL TABLES.
- . FORMAT OF THE CONTROL CARD CALL.
- . EXIT CONDITIONS, INCLUDING STATUS BITS AND FIELDS RETURNED.
- . ERRORS DETECTED, ERROR CODES RETURNED, INCLUDING SUBSEQUENT ACTION TAKEN FOR EACH.
- . SYSTEM ERRORS DETECTED AND SUBSEQUENT ACTION TAKEN.
- . OTHER PROGRAMS CALLED.
- . MESSAGES ISSUED (INCLUDING DAYFILE AND OPERATOR).

THE CONTENT OF THIS SECTION FOLLOWS THE GENERAL DEFINITION OF EXTERNAL INTERFACE DOCUMENTATION IN SECTION 2.1. THE OBJECTIVE IS TO SUPPLY INFORMATION REQUIRED BY A POTENTIAL USER OF THE PROGRAM.

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### 2.3.3 INTERNAL

THE INTERNAL DOCUMENTATION DESCRIBES THE INTERNAL WORKINGS OF THE PROGRAM. IT MAY BE DISPERSED THROUGHOUT A PROGRAM AS DESIRED, HOWEVER A MAJOR PORTION APPEARS IMMEDIATELY FOLLOWING THE EXTERNAL DOCUMENTATION. INTERNAL DOCUMENTATION CONSISTS OF AN INTERNAL DOCUMENTATION CARD (SEE SECTION 2.2.3) AND ADDITIONAL COMMENT CARDS WHICH TOGETHER CONTAIN THE FOLLOWING ITEMS OF DATA (SEE SECTION 2.2.4 FOR THE LAYOUT OF THESE ITEMS):

- SYSTEM TEXTS REQUIRED FOR ASSEMBLY (OTHER THAN DEFAULT).
- DIRECT CELL USAGE (PPU PROGRAMS).
- GLOBAL REGISTER ASSIGNMENTS (CPU PROGRAMS).
- DATA AREAS AND TABLE FORMATS.
- MEMORY MAP (IF OVERLAYS ARE USED).

OTHER ITEMS TO BE INCLUDED IF APPLICABLE ARE:

- TECHNIQUES OR ALGORITHMS EMPLOYED WHERE NOT OBVIOUS.
- TIMING CONSIDERATIONS.
- INTERLOCK CONSIDERATIONS.
- KNOWN LIMITATIONS TO PERFORMANCE OR EXTENSIBILITY, SUCH AS TIMING OF LOOPS, CORE SIZE, ERROR-RECOVERY DEFICIENCIES.

ANY OTHER INFORMATION WHICH WOULD AID SOMEONE IN UNDERSTANDING THE INTERNAL WORKINGS OF THE PROGRAM IS ALSO PROVIDED, INCLUDING LOGICAL FLOW, STRUCTURE, AND PITFALLS TO REDESIGN.

### 2.4 SUBROUTINE-LEVEL DOCUMENTATION

THE HEADING OF ANY SUBROUTINE CONSISTS OF COMMENT CARDS GIVING A BRIEF DESCRIPTION OF ITS FUNCTION, ITS ENTRY AND EXIT CONDITIONS, REGISTER OR DIRECT CELL USAGE AND INTERNAL WORKINGS. THE INFORMATION CONTAINED SHOULD BE ON A LEVEL INDICATED BY THE COMPLEXITY OF THE SUBROUTINE. THE FOLLOWING ITEMS OF DATA SHOULD BE INCLUDED (SEE SECTIONS 2.6.2 AND 2.6.3 FOR THE LAYOUT OF THESE ITEMS):

- TITLE CARD WITH NAME AS SUBTITLE (PRIMARY SUBROUTINE)
- SPACE CARD (SEE SECTION 3.6.3)
- INTERNAL COMMENT CARD GIVING NAME AND TITLE OF SUBROUTINE
- ENTRY CONDITIONS (LIST)
- EXIT CONDITIONS (LIST)
- REGISTER OR DIRECT CELL USAGE (LIST)
- ROUTINES CALLED (LIST)
- MACROS CALLED (LIST)
- DESCRIPTION OF ALLOCATED REGISTERS
- TIMING CONSIDERATIONS, IF CRITICAL
- DESIGN, IMPLEMENTATION AND GENERAL INFORMATION
- TWO BLANK CARDS

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THE TITLE OF THE SUBROUTINE SHOULD DESCRIBE THE ACTION PERFORMED BY THE SUBROUTINE (FOR EXAMPLE, POSITION MASS STORAGE, MAKE QUEUE ENTRY). THIS MEANS THAT TITLES SHOULD ALWAYS CONTAIN A VERB. TITLES WITHOUT VERBS SHOULD BE USED FOR GROUPS OF SUBROUTINES AND COMSXXX DECKS.

DEFINED FORMATS EXIST FOR THE LIST OF ITEMS IN THE SUBROUTINE HEADING. A KEYWORD APPEARS IN COLUMN 11, FOLLOWED BY TEXT IN COLUMN 18. THE TEXT IS SIMPLY A LIST, RATHER THAN COMPLETE SENTENCES. ANY LIST REQUIRING MORE THAN ONE CARD IS CONTINUED BEGINNING IN COLUMN 18 (OR BEYOND) OF THE NEXT COMMENT CARD. THE FORMATS ARE SHOWN BELOW. EACH LIST ENDS WITH A PERIOD.

ENTRY	ENTRY CONDITIONS.
EXIT	EXIT CONDITIONS.
USES	REGISTER OR DIRECT CELLS DESTROYED.
CALLS	ROUTINES CALLED.
MACROS	MACROS CALLED.
DEFINE	LIST OF ALLOCATABLE REGISTERS.
TIMING	DESCRIPTION OF TIMING CONSIDERATIONS.
NOTES	PROGRAMMING INFORMATION.

DOCUMENTATION FOR COMMON DECKS AND ZERO LEVEL OVERLAYS SHOULD INCLUDE SUBROUTINE LEVEL DOCUMENTATION WHERE APPROPRIATE.

#### 2.4.1 ENTRY CONDITIONS

ENTRY CONDITIONS MAY INCLUDE THE FOLLOWING ITEMS:

- REGISTERS, DIRECT CELLS OR MEMORY LOCATIONS THAT MUST BE SET BEFORE THE SUBROUTINE IS CALLED.
- LOGICAL STATUS OF CHANNELS, FILES, ETC., (IE. CHANNELS RESERVED, FILES SET BUSY, DISK POSITIONED, FILES POSITIONED) THAT SHOULD EXIST BEFORE THE SUBROUTINE IS CALLED.

ONLY ONE ENTRY CONDITION MAY BE SPECIFIED PER LINE. FOR PPU CODE, THE CONTENTS OF THE A REGISTER SHOULD BE DESCRIBED FIRST.

#### 2.4.2 EXIT CONDITIONS

EXIT CONDITIONS INCLUDE THE FOLLOWING ITEMS:

- REGISTERS, DIRECT CELLS OR MEMORY LOCATIONS THAT MAY BE USED BY SUBSEQUENT ROUTINES.
- LOGICAL STATUS OF CHANNELS, FILES, ETC., (IE. CHANNELS RESERVED, FILES SET BUSY, DISK POSITIONED, FILES POSITIONED) THAT EXIST WHEN THE SUBROUTINE IS EXITED.
- SPECIAL TERMINATIONS OF THE SUBROUTINE SUCH AS JUMPS TO ERROR PROCESSORS OR TO ANY OTHER ROUTINES. THE LABEL BEING

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JUMPED TO AND THE CONDITIONS THAT CAUSE THE SPECIAL EXIT SHOULD BE DOCUMENTED.

ONLY ONE EXIT CONDITION IS LISTED PER LINE. FOR PPU CODE, THE CONTENTS OF THE A REGISTER SHOULD BE DESCRIBED FIRST.

#### 2.4.3 REGISTER OR DIRECT CELL USAGE

REGISTERS OR DIRECT CELLS USED INCLUDE ALL REGISTERS OR DIRECT CELLS DESTROYED BY THAT SUBROUTINE ONLY.

FOR CPU CODE, THE FORMAT OF THE USES BLOCK INCLUDES A REGISTER TYPE (X - OPERAND REGISTER, A - ADDRESS REGISTER, B - INDEX REGISTER) FOLLOWED BY A SEQUENCE OF ASCENDING NUMBERS INDICATING THE REGISTERS USED.

EXAMPLE:

X - 0, 1, 6.  
A - 1, 6.  
B - 3, 7.

INDICATES THE FOLLOWING REGISTERS ARE USED:

X0, X1, X6, A1, A6, B3, B7.

FOR PPU CODE, SINGLE DIRECT CELLS ARE LISTED IN ALPHABETICAL ORDER FOLLOWED BY MULTIPLE DIRECT CELLS LISTED IN ALPHABETICAL ORDER.

EXAMPLE:

T1, T2, T5, CM - CM+4, RI - RI+1.

THE DIRECT CELL AT PPU MEMORY LOCATION 0 (T0) IS ASSUMED TO BE USED BY EVERY SUBROUTINE UNLESS OTHERWISE STATED IN THE ENTRY/EXIT CONDITIONS. THIS IS BECAUSE CERTAIN INSTRUCTIONS, SUCH AS CRM AND CWM, DESTROY LOCATION ZERO.

#### 2.4.4 ROUTINES CALLED

ROUTINES CALLED BY A SUBROUTINE INCLUDE ALL SUBROUTINES AND OVERLAYS THAT ARE EXPLICITLY CALLED. ROUTINES CALLED BY MACROS ARE NOT TO BE INCLUDED.

#### 2.4.5 MACROS CALLED

MACROS CALLED INCLUDE ALL MACROS THAT ARE EXPLICITLY CALLED BY A SUBROUTINE.

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#### 2.4.6 ALLOCATED REGISTERS OR DIRECT CELLS

ALLOCATED REGISTERS ARE REGISTERS (OR DIRECT CELLS FOR PPU CODE) USED FOR WELL DEFINED ITEMS THROUGHOUT A PARTICULAR SUBROUTINE OR PROGRAM.

#### 2.4.7 TIMING CONSIDERATIONS

TIMING CONSIDERATIONS SHOULD DESCRIBE ANY TIMING LIMITATIONS THAT ARE IMPOSED ON THE SUBROUTINE BECAUSE OF HARDWARE OR PERFORMANCE CONSTRAINTS. CARE SHOULD BE TAKEN TO EXPRESS UNITS OF TIME IN A MANNER INDEPENDENT OF MACHINE TYPE. FOR EXAMPLE, UNITS OF TIME EXPRESSED IN CYCLES RATHER THAN MICROSECONDS IS MORE DESIRABLE. THIS IS BECAUSE THE SAME ROUTINE MAY EXECUTE FASTER OR SLOWER THAN STATED DEPENDING ON THE TYPE OF THE PPU OR CPU IT EXECUTES IN.

#### 2.4.8 NOTES

THIS SECTION DOCUMENTS DESIGN, IMPLEMENTATION AND GENERAL INFORMATION THAT MAY BE USEFUL TO OTHER ANALYSTS. INFORMATION IN THIS SECTION PERTAINS TO THE SUBROUTINE ONLY.

### 2.5 CODE LEVEL DOCUMENTATION

ALL DOCUMENTATION WHICH IS NOT DESCRIBED IN ONE OF THE PRECEDING SECTIONS OF THIS DOCUMENT FALLS INTO THE CATEGORY OF CODE LEVEL DOCUMENTATION. THE REQUIREMENTS FOR THIS TYPE OF DOCUMENTATION VARY WIDELY, SO FEW RULES CAN BE STATED; HOWEVER, CODE LEVEL DOCUMENTATION IS NECESSARY AND THE LACK OF EXPLICIT REQUIREMENTS MUST NOT LEAD TO ITS NEGLECT.

CODE LEVEL DOCUMENTATION, ALONG WITH THE SUBROUTINE HEADINGS, MUST SATISFY THE NEED FOR AID IN READING THE CODE. ITS CONTENT FOLLOWS THE GUIDELINES FOR DETAILED CODE ANALYSIS IN SECTION 2.1.4.

#### 2.5.1 STAND-ALONE COMMENTS

STAND-ALONE COMMENTS ARE COMMENT CARDS APPEARING IN-LINE WITH CODE, AS OPPOSED TO WITHIN HIGHER-LEVEL DOCUMENTATION PREVIOUSLY DEFINED. ALL STAND-ALONE COMMENTS ARE PRECEDED AND FOLLOWED BY ONE BLANK CARD.

STAND-ALONE COMMENTS DESCRIBE THE FUNCTION PERFORMED BY THE SUBSEQUENT SECTION OF IN-LINE CODE. THE COMMENTS ARE COMPLETE ENGLISH SENTENCES WITH CORRECT PUNCTUATION, ENDING WITH A PERIOD. THE COMMENTS REFER TO FUNCTIONS AND DATA IN EXTERNAL TERMS, RATHER THAN ONLY IN OCTAL NUMBERS AND BIT POSITIONS. THESE COMMENTS FOLLOW THE GENERAL REQUIREMENTS FOUND IN SECTION 2.2.

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## 2.5.2 EMBEDDED COMMENTS

EMBEDDED COMMENTS ARE COMMENTS IN COLUMNS 30-71 OF A CARD ASSEMBLED BY COMPASS, NOT A COMMENT CARD. THE COMMENT NEED NOT BE A COMPLETE SENTENCE. THIS TYPE OF COMMENT IS NEVER CONTINUED ONTO ANOTHER CARD. IF THE INTENDED COMMENT IS TOO LONG TO FIT ON THE SINGLE CARD, IT IS INSERTED AS A STAND-ALONE COMMENT PRECEDING THE AREA OF CODE TO WHICH IT APPLIES.

AN EMBEDDED COMMENT DESCRIBES THE FUNCTION OF THE INSTRUCTION OR SEQUENCE OF INSTRUCTIONS ON WHICH IT APPEARS. (IT MUST BE AT THE BEGINNING OF THE SEQUENCE.) IT DOES NOT DESCRIBE THE HARDWARE OPERATION BEING PERFORMED, BUT RATHER ITS MEANING IN THE CONTEXT OF THE FUNCTION TO BE PERFORMED BY THE PROGRAM.

AN EMBEDDED COMMENT IS REQUIRED ON EACH JUMP INSTRUCTION, TO IDENTIFY THE CONDITION BEING TESTED (CONDITIONAL JUMPS) OR THE ACTION BEING TAKEN (UNCONDITIONAL JUMPS). ON JUMP INSTRUCTIONS, THE WORD 'JUMP' IS SUPERFLUOUS, AND IS NOT USED. ON CONDITIONAL JUMPS, THE COMMENT BEGINS WITH THE WORD 'IF' AND DESCRIBES THE CONDITION ON WHICH THE JUMP WILL BE EXECUTED. THESE COMMENTS FOLLOW THE GENERAL REQUIREMENTS FOUND IN SECTION 2.2.

AN EMBEDDED COMMENT IS REQUIRED ON ALL PSEUDO TESTS (ERRNZ, ERRPL, ETC.). THE COMMENT SHOULD STATE THE CONDITION FOR WHICH THE TEST FAILS.

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## 2.6 DOCUMENTATION EXAMPLES

THESE EXAMPLES ARE STATEMENTS OF THE STANDARD AND ARE INTENDED AS FURTHER CLARIFICATION OF THE REQUIRED PROCEDURES.

### 2.6.1 PROGRAM LEVEL

```

***** LIBEDIT - LIBRARY EDITING PROGRAM.
*
*   A. B. ORIGINAL.      74/01/01.
*   A. B. MODIFIER.      75/01/01.
*   C. D. MODIFIER.      76/01/01.
*
*   LIBEDIT IS A GENERAL PURPOSE FILE EDITING
*   PROGRAM CAPABLE OF MODIFYING AND
*   GENERATING LIBRARY FILES.
*   SPACE      4,10
***   LIBEDIT IS A GENERAL PURPOSE FILE EDITING
*   PROGRAM CAPABLE OF MODIFYING AND
*   GENERATING LIBRARY FILES.
*   SPACE      4,10
***   CONTROL CARD CALL.
*
*
*   SPACE      4,10
***   DAYFILE MESSAGES.
*
*
*   SPACE      4,10
***   ACCOUNT MESSAGES.
*
*
*   SPACE      4,10
***   ERRLOG MESSAGES.
*
*
*   SPACE      4,10
***   OPERATOR MESSAGES.
*
*
*   SPACE      4,10
****  ASSEMBLY CONSTANTS.

BUFL  EQU      1001B      OUTPUT BUFFER LENGTH
****

```

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2.6.2 SUBROUTINE LEVEL (PP CODE)

```

LEM      TITLE      ERROR PROCESSING ROUTINES.
SPACE    4,20
**      LEM - LIST ERROR MESSAGE.
*
*      ENTRY      (A) = 1 IF SINGLE BIT SECCDED ERROR.
*                  = 2 IF STATUS/CONTROL REGISTER
*                  ERROR LIMIT.
*                  (SCRA - SCRA+20) = SCR IMAGE.
*                  (NL) = ADDRESS OF NEXT LIST ENTRY.
*
*      EXIT      (NL) = UPDATED LIST POINTER.
*                  TO *ERR* IF ERROR ENCOUNTERED.
*
*      USES      T1, T2, CH - CH+4, FN - FN+4.
*
*      CALLS      LMC.
*
*      MACROS      MONITOR, SUBR.
*
*      DEFINE      (T2) = FWA OF MESSAGE.
*
*      TIMING      A DELAY IS NEEDED TO AVOID FILLING THE
*                  DISK WITH ERRLOG MESSAGES.
*

LEM      SUBR                  ENTRY/EXIT
      .
      .
      .
      UJN      LEMX            RETURN
    
```

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### 2.6.3 SUBROUTINE LEVEL (CP CODE)

```

ACS      SPACE      4,20
**      ACS - ASSEMBLE CHARACTER STRING.
*
*      ENTRY      (B6) = FWA OF CHARACTER STRING.
*                (B7) = LENGTH OF STRING BUFFER.
*
*      EXIT      (CBUF - CBUF+20) = CHARACTER STRING.
*
*      USES      X - 0, 1, 6.
*                A - 1, 6.
*                B - 6, 7.
*
*      CALLS     MCI.
*
*      MACROS     SUBR.
*
*      DEFINE     (X0) = CHARACTER MASK.
    
```

ACS	SUBR	ENTRY/EXIT
	.	
	.	
	.	
EQ	ACSX	RETURN

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### 3.0 CODING

#### 3.1 CARD/LINE LAYOUTS

##### 3.1.1 COMPASS OPERATION CARDS

THE FOLLOWING LIST OF COLUMN NUMBERS REPRESENT THE BEGINNING OF EACH FIELD IN A COMPASS CODING CARD OR LINE. (AN EXCEPTION IS ALLOWED FOR MACRO DEFINITIONS IN SYSTEM TEXTS WHERE SPACE IS CRITICAL.)

COLUMN 2 = LOCATION FIELD  
 COLUMN 11 = OPERATION FIELD  
 COLUMN 18 = ADDRESS FIELD  
 COLUMN 30 = COMMENT FIELD  
 COLUMN 73 = RESERVED

IF A FIELD IS FULL OR OVERFLOWS INTO AN ADJACENT FIELD, THEN TWO SPACES SHOULD SEPARATE THE FIELDS. COLUMN 72 OF THE COMMENT FIELD SHOULD ALWAYS BE BLANK.

##### 3.1.2 COMPASS COMMENT CARDS

THE FOLLOWING LIST OF COLUMN NUMBERS REPRESENT THE FORMAT OF A COMMENT CARD. A FULL DESCRIPTION OF WHERE AND HOW TO USE COMMENT CARDS IS FOUND IN SECTION 2.

COLUMN 1 = ALWAYS CONTAINS AN ASTERISK  
 COLUMN 2-5 = (SEE SECTION 2.2.3)  
 COLUMN 6-10 = ALWAYS BLANK  
 COLUMN 11-72 = CONTAINS THE TEXT OF THE COMMENT  
 COLUMN 73-80 = RESERVED

#### 3.2 PROGRAM LAYOUT

THE FOLLOWING SECTIONS DEFINE THE COMPONENTS OF A PROGRAM IN THE ORDER THEY APPEAR WITHIN THE PROGRAM. IT IS NOT EXPECTED OR REQUIRED THAT EVERY PROGRAM WILL CONSIST OF ALL COMPONENTS DESCRIBED. IN THIS DISCUSSION A 'PROGRAM' IS A RELOCATABLE PROGRAM UNIT (FROM 'IDENT' TO 'END'), AN ENTIRE ABSOLUTE PROGRAM OR A COMMON DECK. A SUBROUTINE IS A CLOSED ROUTINE WITHIN A PROGRAM.

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### 3.2.1 GROUP 1 INSTRUCTIONS

GROUP 1 INSTRUCTIONS APPEAR AT THE BEGINNING OF EACH PROGRAM AND CONTAIN THE IDENTIFICATION AND ENVIRONMENT INFORMATION FOR THE PROGRAM. THE FOLLOWING EXAMPLES DEFINE THE LAYOUT OF THE GROUP 1 INSTRUCTIONS FOR EACH TYPE OF PROGRAM.

#### 3.2.1.1 PERIPHERAL PROCESSOR PROGRAMS

```

IDENT      XXX,ORIGIN
MACHINE
PERIPH
NOLABEL    (DEADSTART ROUTINES)
BASE       M
LIST       (OPTIONAL)
SST
TITLE      XXX - PROGRAM DESCRIPTION.
*COMMENT   PROGRAM DESCRIPTION. (NOS ONLY)
COMMENT    PROG. DESC. (NOS/BE ONLY)
COMMENT    COPYRIGHT CONTROL DATA CORPORATION. YEAR.
XXX        SPACE      4,10
    
```

#### 3.2.1.2 CENTRAL PROCESSOR PROGRAMS

```

IDENT      XXXXXXX,FWA
ABS
MACHINE
LCC
SST
ENTRY      XXXX
SYSCOM     B1
LIST       (OPTIONAL)
TITLE      XXX - PROGRAM DESCRIPTION.
*COMMENT   PROGRAM DESCRIPTION. (NOS ONLY)
COMMENT    PROG. DESC. (NOS/BE ONLY)
COMMENT    COPYRIGHT CONTROL DATA CORPORATION. YEAR.
XXX        SPACE      4,10
    
```

#### 3.2.1.3 COMMON DECKS

```

CTEXT      XXXXXXX - COMMON DECK DESCRIPTION.
SPACE      4,10
IF         -DEF,QUALS,1
QUAL       XXXXXXX
BASE       X          (X-ANY LEGAL VALUE)
CODE       X          (OPTIONAL)
*COMMENT   COPYRIGHT CONTROL DATA CORPORATION. YEAR.
XXX        SPACE      4,10
    
```

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REFER TO SECTION 4.4.3 FOR FURTHER INFORMATION ON QUALIFICATION OF COMMON DECKS.

### 3.2.2 PROGRAM LEVEL DOCUMENTATION

PROGRAM LEVEL DOCUMENTATION CONSISTS OF OVERVIEW, EXTERNAL AND INTERNAL DOCUMENTATION AS DESCRIBED IN SECTION 2.3.

### 3.2.3 MACRO DEFINITIONS

THE MACROS ARE IN ALPHABETICAL ORDER. COMMON DECKS WHICH DEFINE MACROS SHOULD BE INCLUDED BEFORE LOCAL MACRO DEFINITIONS IN ALPHABETICAL ORDER.

### 3.2.4 INSTALLATION SYMBOL DEFINITIONS

INSTALLATION SYMBOLS ARE PARAMETERS THAT MAY BE CHANGED BY A SITE WHEN INSTALLING A PRODUCT. THESE SYMBOLS MAY INCLUDE BUFFER LENGTHS, DEFAULT VALUES, AND TIMING DELAYS. INSTALLATION SYMBOLS ARE DEFINED IN ALPHABETICAL ORDER UNLESS FUNCTIONAL ORDER IS MORE MEANINGFUL. THE INSTALLATION SYMBOL DEFINITION AREA SHOULD BE BRACKETED BY INTERNAL BRACKET CARDS (\*\*\*\*).

### 3.2.5 LOCAL SYMBOL DEFINITIONS

LOCAL SYMBOLS ARE PARAMETERS THAT SHOULD NOT BE CHANGED BY AN INSTALLATION. THESE SYMBOLS MAY INCLUDE CODE GENERATION SYMBOLS (QUAL\$, DBI\$, ETC.) AND SYMBOLS USED FOR CROSS REFERENCE PURPOSES. LOCAL SYMBOLS ARE DEFINED IN ALPHABETICAL ORDER, UNLESS FUNCTIONAL ORDER IS MORE MEANINGFUL.

### 3.2.6 GLOBAL MEMORY DEFINITIONS

THIS SECTION OF THE PROGRAM IS USED TO DEFINE MEMORY THAT IS PRESET WITH DATA. THIS SECTION MAY INCLUDE FETS, TABLES, AND WORKING STORAGE. GLOBAL MEMORY DEFINITIONS ARE DEFINED IN ALPHABETICAL ORDER UNLESS FUNCTIONAL ORDER IS MORE MEANINGFUL.

### 3.2.7 MAIN LOOP

THIS SECTION OF THE PROGRAM CONTAINS THE MAJOR LOGIC AND CONTROL FLOW FOR THE PROGRAM AND INTERNAL DOCUMENTATION FOR THAT FLOW (SEE SECTION 2.4).

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### 3.2.8 PRIMARY SUBROUTINES

THIS SECTION OF THE PROGRAM CONTAINS THE SUBROUTINES WHICH ARE OF MAJOR IMPORTANCE TO THE PROGRAM. THEY SHOULD BE IN ALPHABETICAL ORDER UNLESS THERE IS A LOGICALLY ASSOCIATED SET OF SUBROUTINES WHICH INTERACT TOGETHER (IN WHICH CASE THESE SUBROUTINES MAY BE GROUPEO TOGETHER). EACH SUBROUTINE CONTAINS DOCUMENTATION AS DESCRIBED IN SECTION 2.4.

### 3.2.9 SECONDARY SUBROUTINES

THIS SECTION OF THE PROGRAM CONTAINS SUBROUTINES OF MINOR IMPORTANCE TO THE PROGRAM. THEY SHOULD BE IN ALPHABETICAL ORDER UNLESS THERE IS A LOGICALLY ASSOCIATED SET OF SUBROUTINES WHICH INTERACT TOGETHER (IN WHICH CASE THESE SUBROUTINES MAY BE GROUPEO TOGETHER). A TITLE CARD WITH THE SUBTITLE 'SECONDARY SUBROUTINES' PRECEDES THE FIRST SECONDARY SUBROUTINE. EACH SUBROUTINE CONTAINS DOCUMENTATION AS DESCRIBED IN SECTION 2.4.

COMMON DECKS (EXCEPT THOSE USED FOR INITIALIZATION) ARE AFTER THE SECONDARY SUBROUTINES. COMMON DECKS SHOULD BE LISTED IN ALPHABETICAL ORDER WHENEVER POSSIBLE.

### 3.2.10 WORKING STORAGE AND BUFFERS

THIS SECTION OF THE PROGRAM CONTAINS WORKING STORAGE AND BUFFER DEFINITIONS THAT ARE NOT PRESET WITH DATA. BUFFER DEFINITIONS SHOULD BE DEFINED WITH EQU INSTRUCTIONS. (REFER TO SECTION 3.4.5)

### 3.2.11 INITIALIZATION CODE

CODE WHICH MAY BE OVERLAYED AFTER PROGRAM INITIALIZATION IS INCLUDED HERE.

### 3.2.12 PROGRAM TERMINATION

ALL PROGRAMS END WITH AN 'END' STATEMENT EXCEPT COMMON DECKS WHICH END AS FOLLOWS:

```

      BASE      *
      CODE      *          (OPTIONAL IF CODE USED)
QUAL$  IF      -DEF,QUAL$
      QUAL      *
XXX    EQU      /XXXXXXX/XXX  (UNQUALIFIED ENTRY POINT)
      .
      .
      .
QUAL$  ENOIF
XXX    ENDX
    
```

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

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IF 'CODE X' IS USED AT THE BEGINNING BUT 'CODE +' IS NOT USED AT THE END OF A COMMON DECK, IT MUST BE EXPLICITLY DOCUMENTED IN THE COMMON DECK HEADER.

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### 3.3 INSTRUCTION.USE..FORMAT.AND.PARAMETERS

#### 3.3.1 REGISTER USE AND SPECIFICATION

##### 3.3.1.1 B0 REGISTER USE

THE B0 REGISTER SHOULD NOT BE SPECIFIED IN INSTRUCTIONS WHICH TEST B REGISTERS. THE ASSEMBLER ASSUMES B0 IF THE REQUISITE NUMBER OF B REGISTERS IS NOT SPECIFIED.

##### 3.3.1.2 B1 REGISTER USE

THE B1 REGISTER MUST ALWAYS CONTAIN THE VALUE ONE (1). THE 'SYSCOM B1' MACRO IS INCLUDED IN EACH PROGRAM TO INDICATE THAT B1 WILL CONTAIN THIS VALUE. B1 MUST BE SET TO 1 IMMEDIATELY UPON PROGRAM ENTRY. B1 IS THEN USED BY COMPASS IN CONJUNCTION WITH THE R= PSUEDO INSTRUCTION TO GENERATE 15 BIT INSTRUCTIONS RATHER THAN 30 BIT INSTRUCTIONS.

##### 3.3.1.3 PACK AND NOMINAL SHIFT X REGISTERS

IN THE PACK AND NOMINAL SHIFT INSTRUCTIONS, THE X REGISTER IS SPECIFIED BEFORE THE B REGISTER, AS FOLLOWS:

```
PXI      XK,BJ
LXI      XK,BJ
```

##### 3.3.1.4 UNPACK AND NORMALIZE X REGISTERS

IN THE UNPACK AND NORMALIZE INSTRUCTIONS, THE B REGISTER IS SPECIFIED IN THE OPCODE FIELD IMMEDIATELY FOLLOWING THE OPCODE.

```
UXI,BJ   XK
NXI,BJ   XK
```

#### 3.3.2 MULTIPLE LOGICAL TESTS

WHEN A PPU PROGRAM TESTS A VALUE IN THE A-REGISTER FOR EQUALITY WITH SEVERAL POSSIBLE VALUES, IT IS DONE WITH A SEQUENCE OF LOGICAL DIFFERENCE (EXCLUSIVE 'OR') OPERATIONS, AS FOLLOWS:

```
LMC      AA
ZJN      XYZ12      IF TYPE AA
LMC      BB&AA
ZJN      XYZ24      IF TYPE BB
LMC      CC&BB
ZJN      XYZ36      IF TYPE CC
```

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THE VALUE BEING TESTED IS SPECIFIED FIRST IN THE LMC.

### 3.3.3 SHIFT INSTRUCTION PARAMETERS

SHIFT COUNTS IN SHIFT INSTRUCTIONS WHICH ARE USED TO TEST BITS, ARE CODED IN ONE OF THE FOLLOWING FORMS:

A-B (FIRST SHIFT OF A WORD)

A-B-AA+BB+M (NEXT SHIFT OF THE WORD)

WHERE:

- A -THE DESIRED POSITION OF A BIT IN THE WORD.
- B -THE ORIGINAL POSITION OF A BIT IN THE WORD (BEFORE ANY SHIFTS).
- AA, BB -THE A AND B PARAMETERS FROM THE PREVIOUS SHIFT OF THIS WORD.
- M -MODULUS VALUE

NOTE: THE MODULUS VALUES (60 FOR CPU AND 228 FOR PPU) MAY HAVE TO BE ADDED TO THE SHIFT VALUE IF THE RESULTING VALUE IS NOT WITHIN THE LEGAL LIMITS FOR THE INSTRUCTION.

EXAMPLE:

1. TO SHIFT BIT 47 TO BIT 59:

LXI 59-47

2. TO SHIFT THE RESULT OF EXAMPLE 1 SO THAT BIT 32 OF THE ORIGINAL REGISTER (BEFORE ANY SHIFTS) IS IN BIT 59 OF THE RESULT:

LXI 59-32-59+47

3. TO SHIFT THE RESULT OF EXAMPLE 2 SO THAT BIT 58 OF THE ORIGINAL REGISTER (BEFORE ANY SHIFTS) IS IN BIT 59 OF THE RESULT:

LXI 59-58-59+32

EXAMPLE:

1. TO SHIFT BIT 2 TO BIT 21:

SHN 21-2

2. TO SHIFT THE RESULT OF EXAMPLE 1 SO THAT BIT 5 OF THE ORIGINAL REGISTER (BEFORE ANY SHIFT) IS IN BIT 21 OF THE RESULT:

SHN 21-5-21+22

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A MODULUS OF 220 IS NEEDED IN THIS CASE TO AVOID EXECUTING A RIGHT SHIFT (IE. THE RESULTANT SHIFT WOULD OTHERWISE BE NEGATIVE.)

### 3.3.4 BOOLEAN MASK USAGE

THE MASK CREATED FOR USE IN BOOLEAN INSTRUCTIONS DEPENDS ON WHETHER THE FIELD OF BITS TO BE EXTRACTED IS IN THE LEFT OR RIGHT HAND PART OF THE WORD. IF THE FIELD OF N BITS IS IN THE LEFT HAND PART OF THE WORD, USE THE FOLLOWING METHOD:

```
MXI      N
BXJ      XI* XK (XJ CONTAINS THE EXTRACTED FIELD)
```

IF THE FIELD OF N BITS IS IN THE RIGHT HAND PART OF THE WORD, THE FOLLOWING METHOD IS USED:

```
MXI      -N
BXJ      -XI* XK (XJ CONTAINS THE EXTRACTED FIELD)
```

IF THE MASK IS USED IN MORE THAN ONE WAY, THE FIRST USE DETERMINES HOW IT IS DEFINED.

### 3.3.5 RELATIVE ADDRESSING

RELATIVE ADDRESSING (SUCH AS  $\phi+N$  AND  $\phi-N$ , WHERE N IS A NUMERIC VALUE) SHOULD NOT BE USED EXCEPT:

1. IN TIMING DELAYS (WHERE  $\phi-1$  IS THE ONLY ACCEPTABLE VALUE).
2. FOR INSTRUCTION MODIFICATION (WHERE  $\phi-1$  OR  $\phi-2$  ARE THE ONLY ACCEPTABLE VALUES).
3. IN PPU CODE TO REFERENCE BYTES WITHIN A CPU WORD. THE RELATIVE ADDRESS MUST BE IN ONE OF THE FOLLOWING FORMS:

```
TAG+N
TAG+C*5+N
```

WHERE:

```
TAG = BASE ADDRESS
C = CM WORD WITHIN THE PP BUFFER
N = BYTE WITHIN THE CM WORD (0 - 4)
```

### 3.3.6 JUMP INSTRUCTION USE

UNCONDITIONAL JUMPS IN CPU CODE ARE CODED USING THE EQ INSTRUCTION SO THAT THE INSTRUCTION STACK IS NOT VOIDED. WHEN IT IS NECESSARY TO VOID THE INSTRUCTION STACK THE RJ INSTRUCTION IS USED. (THE RJ IS THE ONLY INSTRUCTION WHICH VOIDS THE STACK ON ALL CENTRAL PROCESSORS.)

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A BLANK CARD IS INSERTED AFTER EACH UNCONDITIONAL JUMP INSTRUCTION TO INDICATE A BREAK IN THE PROGRAM FLOW. IF THE UNCONDITIONAL JUMP OCCURS AT THE END OF A SUBROUTINE, A SPACE CARD OR TITLE CARD MAY BE USED.

A BLANK CARD IS ALSO REQUIRED AFTER AN IMPLIED UNCONDITIONAL JUMP. THE FOLLOWING ARE EXAMPLES OF AN IMPLIED UNCONDITIONAL JUMP.

EXAMPLE:

A BLANK CARD SHOULD BE INSERTED AFTER MACRO CALLS THAT BREAK THE FLOW OF EXECUTION IN A SEQUENCE OF CODE.

```

      .
      .
      .
      NZ      X1,TAG2      IF COMMENT
      ABORT
      (BLANK CARD)
TAG2  SA1      B2
      .
      .
      .
    
```

EXAMPLE:

WHEN CODE OCCURS BEFORE THE SUBR, THERE SHOULD BE A BLANK CARD BETWEEN THE CODE AND THE SUBR.

```

TAG1  LDN      0      COMMENT
      (BLANK CARD)
TAG   SUBR      ENTRY/EXIT
      .
      .
      .
      UJN      TAGX      RETURN
    
```

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### 3.3.7 SUBROUTINE ENTRY

EACH SUBROUTINE HAS ONE AND ONLY ONE ENTRY POINT. EXCEPTIONS ARE ALLOWED AS FOLLOWS:

IF MEMORY LIMITATIONS IN A PPU PROGRAM MAKE THIS IMPRACTICAL.

FOR TERMINAL SUBROUTINES (SUCH AS ERROR PROCESSORS). EACH ENTRY POINT SHOULD BE DOCUMENTED WITHIN THE SUBROUTINE.

PPU AND CPU SUBROUTINES WHICH ARE ENTERED VIA A RETURN JUMP CONTAIN THE FOLLOWING INSTRUCTION AT THEIR ENTRY/EXIT POINT:

TAG	SUBR	ENTRY/EXIT
	.	
	.	
	UJN	TAGX
		RETURN

OR,

TAG	SUBR	ENTRY/EXIT
	.	
	.	
	EQ	TAGX
		RETURN

WHEN SPACE IS CRITICAL IN A PPU PROGRAM, A SUBROUTINE MAY CONSIST OF A BLOCK OF CODE THAT IS ENTERED BY A LONG JUMP INSTRUCTION. IN THIS CASE, THE SUBROUTINE ENTRY POINTS SHOULD BE CLEARLY DOCUMENTED.

### 3.3.8 CPU CODE OPTIMIZATION

AN EFFORT SHOULD BE MADE TO AVOID THE GENERATION OF NO-OPS AT THE END OF A 60-BIT WORD. THIS MAY BE DONE BY ARRANGEMENT OF CODE SO THAT EACH 60-BIT WORD IS COMPLETELY FILLED WITH EXECUTABLE CODE. THIS IS ALSO DONE FOR INSTRUCTIONS WHICH HAVE AN OPTIONAL 'K' PARAMETER BY SUPPLYING A ZERO VALUE FOR 'K', THUS GENERATING A 30-BIT INSTRUCTION INSTEAD OF A 15-BIT INSTRUCTION. THE WAY TO DO THIS IS TO APPEND A '+' TO THE REGISTER IN THE VARIABLE FIELD OF THE INSTRUCTION, AS SHOWN BELOW:

SA4      A1+    (GENERATES 30-BIT INSTRUCTION)

THIS INDICATES THAT THE PADDING WAS ADDED FOR OPTIMIZATION PURPOSES AND IS TO BE REMOVED AS NECESSARY WHEN THE CODE IS MODIFIED.

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### 3.3.9 CLEARING PPU MEMORY

THE FOLLOWING CODING SEQUENCES ARE USED TO CLEAR 5 CONSECUTIVE WORDS OF PPU MEMORY TO ZEROES:

```

+-----+
I          -NOS ONLY-
I
I          LDN      ZERL
I          CRD      TAG
+-----+

+-----+
I          -NOS/BE ONLY-
I
I          LDN      P.ZERO
I          CRD      TAG
+-----+

```

THE CONSTANTS ZERL AND P.ZERO SHOULD NOT BE ASSUMED TO BE AT ADDRESS ABSOLUTE ZERO IN MEMORY.

### 3.3.10 INSTRUCTION MODIFICATION

INSTRUCTIONS WHICH ARE MODIFIED ARE FOLLOWED BY A COMMENT WHICH SHOWS EACH ALTERNATIVE FORM UNDER WHICH THE INSTRUCTION CAN TAKE. THE FOLLOWING EXAMPLES SHOW THE LAYOUT USED:

EXAMPLE:

```

TAG      LOC      TRCO      SET READ FUNCTION
*         LOC      TWTO      (WRITE FUNCTION)
*         LDC      TFCN      (POSITION FUNCTION)
TAGA     EQU      +-1

```

EXAMPLE:

```

TAGA     LDC      *          RESTORE (T1)
*         LDC      (T1)      (CONTENTS OF T1)
          STO      T1

```

THE COMMENT IN ( ) SHOULD DESCRIBE THE CONDITIONS UNDER WHICH THE INSTRUCTION IS CHANGED.

PPU SHORT JUMP INSTRUCTIONS WHICH MUST BE MODIFIED ARE TESTED FOR RANGE ERRORS. THE LOC PSEUDO-OP IS USED AND THE JUMP INSTRUCTION ACTUALLY ASSEMBLED IF THE PROGRAM SIZE IS NOT A CRITICAL FACTOR. FOR EXAMPLE:

```

      .
      .
      .
TAGA  MJN      TAG1      IF TIME NOT EXPIRED

```

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*	UJN	TAG2	(ONE CPU ONLY)
	.		
	.		
	.		
	LOC	TAGA	
	UJN	TAG2	
	LOC	*0	

WHEN PROGRAM SIZE IS A CONSTRAINING FACTOR, THE ERRNG PSUEDO INSTRUCTION MAY BE USED TO TEST FOR RANGE ERRORS AS FOLLOWS:

ERRNG	$37 + DADDR - JADDR$	(COMMENT)
ERRNG	$37 + JADDR - DADDR$	(COMMENT)

WHERE:

JADDR	= ADDRESS OF JUMP INSTRUCTION
DADDR	= DESTINATION ADDRESS OF JUMP

INSTRUCTION MODIFICATION SHOULD BE AVOIDED IN CPU CODE. (CAUTION MUST BE TAKEN TO ENSURE THAT THE INSTRUCTION TO BE MODIFIED IS NOT ALREADY IN THE INSTRUCTION STACK.)

### 3.3.11 COMMON DECK REGISTER USAGE

CPU CODE WITHIN COMMON DECKS AVOIDS USING REGISTERS A0, A5, X0 AND X5 UNLESS ABSOLUTELY NECESSARY.

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### 3.4 DATA USE, FORMAT AND PARAMETERS

#### 3.4.1 LITERALS

LITERALS MAY BE USED FOR READ ONLY CONSTANTS ONLY.

#### 3.4.2 DATA FORMATS

DATA IS SPECIFIED IN ITS NATURAL FORM (READABLE AND UNDERSTANDABLE BY HUMANS) USING POST-RADIX SYMBOLS AS REQUIRED (SEE SECTION 3.6.1). IF CONVERSION CONSIDERATIONS MAKE THIS IMPOSSIBLE, THE COMMENT FIELD WILL CONTAIN THE NATURAL FORM OF THE DATA. OCTAL VALUES ARE NOT USED FOR CHARACTER DATA UNLESS THE DATA CANNOT BE SPECIFIED IN ANY OTHER WAY. WHEN THE VFD IS USED, IT CANNOT GENERATE MORE THAN ONE CM WORD OF DATA.

ONLY ONE PIECE OF DATA IS SPECIFIED ON A LINE OF CODE UNLESS A BLOCK OF DATA IS BEING SPECIFIED FOR USE AS A SINGLE DATA ITEM, TO BE REFERENCED BY A SINGLE NAME.

#### 3.4.3 TABLE GENERATION

TABLES WHICH ARE GENERATED WITH ENTRY ORDINALS RELATIVE TO THE BASE ADDRESS OF THE TABLE, SHOULD USE THE LOC PSEUDO-OP AS SHOWN IN THE FOLLOWING EXAMPLE:

TFCN	BSS	0	TABLE ENTRY
	LOC	0	
	CON	RNM	FIRST ENTRY
	CON	ACF	SECOND ENTRY
	.		
	.		
	CON	VSN	LAST ENTRY
	LOC	*0	
TFCNL	EQU	*-TFCN	TABLE LENGTH

WHERE TABLES ARE DESCRIBED, THEY ARE DEFINED SO THEY CAN BE PROCESSED BY THE 'DOCUMENTATION TABLE GENERATOR'. A DESCRIPTION OF THIS FORMAT IS FOUND IN THE EXTERNAL DOCUMENTATION FOR THE PROGRAM 'DOCUMENT'.

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#### 3.4.4 DIRECT CELL USE

DIRECT CELLS ARE DEFINED USING ONE OF THE FOLLOWING METHODS:

##### 1. A SINGLE CELL:

XX	EQU	N	DESCRIPTION
----	-----	---	-------------

##### 2. MULTIPLE CELLS:

XX	EQU	N - M	DESCRIPTION
----	-----	-------	-------------

##### 3. CONTIGUOUS CELLS:

XX	LOC	N	DESCRIPTION
YY	BSS	1	DESCRIPTION
	BSS	5	DESCRIPTION
	.		
	.		
	.		
ZZ	BSS	1	DESCRIPTION
	LOC	+0	

WHERE:

XX = THE TAG FOR THE CELL  
 YY = THE TAG FOR THE CELL  
 ZZ = THE TAG FOR THE CELL  
 N = LOCATION OF THE CELL (OR FIRST CELL)  
 M = LOCATION OF THE LAST CELL

MULTIPLE DEFINITIONS OF DIRECT CELLS SHOULD BE AVOIDED.

THE FIRST FEW DIRECT CELLS IN THE PPU SHOULD NOT BE USED FOR DATA WHICH IS CRITICAL TO DEBUGGING. THE OEAOSTART OUMP PROCESS DESTROYS THE CONTENTS OF THESE LOCATIONS:

NOS TO - T3

NOS/BE 0.20 - 0.24

#### 3.4.5 BUFFER DEFINITIONS

BUFFERS AND WORKING STORAGE AREAS ARE DEFINED USING EQU STATEMENTS (RATHER THAN BSS AND BSSZ) TO AVOID UNNECESSARY LOADING OF THE BUFFER AREAS. THIS APPLIES TO CPU AND PPU CODE.

	USE	BUFFERS
IBUF	EQU	*
OBUF	EQU	IBUF+IBUFL

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### 3.5 DATA/CODE NAMING TERMINOLOGY

#### 3.5.1 USE OF CONDITION TERMINOLOGY

THE FOLLOWING TERMS ARE USED TO DESCRIBE THE CONDITION OF BITS USED AS FLAGS OR SWITCHES. THE SELECTED TERMS SHOULD BE USED CONSISTENTLY WITHIN A PROGRAM.

1	0
ON	OFF
TRUE	FALSE
SET	CLEAR
NONZERO	ZERO
UP	DOWN

#### 3.5.2 TAGS WITHIN SUBROUTINES

EACH SUBROUTINE (MAIN LOOP, PRIMARY SUBROUTINE OR SECONDARY SUBROUTINE) HAS A MEANINGFUL THREE CHARACTER NAME WHICH IS DERIVED FROM THE TITLE OF THE SUBROUTINE (SEE SECTION 2.4).

TAGS USED FOR BRANCH INSTRUCTIONS ARE OF THE FORM:

XXXN

TAGS ON CODE WHICH IS ADDED LATER TO THE SUBROUTINE ARE OF THE FORM:

XXXN.N

TAGS THAT ARE INSERTED BETWEEN THE SUBR AND THE TAG XXX1 BY CORRECTIVE CODE ARE OF THE FORM:

XXXO.N

TAGS ON STORAGE LOCATIONS (CONSTANTS, TEMPORARY STORAGE AND INSTRUCTION MODIFICATION) WITHIN A SUBROUTINE ARE OF THE FORM:

XXXX

WHERE:

- XXX = SUBROUTINE NAME
- XXXN = TAG PRECEDING AN ADDED ONE
- N = NUMBER FROM 1 TO 99 (IN CONSECUTIVE ORDER BEGINNING AT THE ENTRY POINT AND ENDING AT THE EXIT POINT)
- A = LETTER FROM A TO Z AND AA TO ZZ (IN ALPHABETICAL ORDER AND EXCLUDING X)

TAGS OF THE FORM XXXN, XXXN.N, AND XXXA SHOULD NOT BE REFERENCED OUTSIDE OF SUBROUTINE XXX.

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IF THE ABOVE RULES CANNOT BE FOLLOWED DUE TO TAG UNAVAILABILITY,  
THE ENTIRE SUBROUTINE WILL HAVE ITS TAGS RESEQUENCED.

### 3.5.3 TAGS ON DATA

#### 3.5.3.1 DIRECT CELLS

ALL LOCALLY DEFINED PPU DIRECT CELLS HAVE TWO-CHARACTER TAGS. (IN  
NOS ALL DIRECT CELLS HAVE TWO-CHARACTER TAGS.)

THE FOLLOWING TABLE DEFINES THE PREASSIGNED DIRECT CELL USAGE:

CONTENTS	NOS NAME	NOS LOCATION	NOS/BE NAME	NOS/BE LOCATION
CONTROL POINT RA	RA	55	D.RA	55
CONTROL POINT FL	FL	56	D.FL	56
1	ON	70	D.PPONE	70
100	HN	71	D.HN	71
1000	TH	72	D.TH	72
3	TR	73	D.TR	73
CPA ADDRESS	CP	74	D.CPAD	74
PPU INPUT REGISTER ADDRESS	IA	75	D.PPIR	74
PPU OUTPUT REGISTER ADDRESS	OA	76	--	--
PPU MESSAGE BUFFER ADDRESS	MA	77	D.PPMES1	75
PPU STATUS WORD ADDRESS	--	--	D.PPSTAT	77

#### 3.5.3.2 CODE CONTROL NAMES

NAMES USED FOR ASSEMBLY OPTIONS, MICROS AND TO CONTROL CODE  
GENERATION ARE FIVE OR MORE CHARACTERS LONG.

#### 3.5.3.3 TABLE NAMES

TAGS USED ON TABLES HAVE THE FORM:

TXXX

TAGS USED FOR TABLE LENGTHS HAVE THE FORM:

TXXXL

TAGS USED FOR TABLE ENTRY LENGTHS HAVE THE FORM:

TXXXE

WHERE:

XXX=3 CHARACTER TABLE NAME

### 3.5.3.4 GLOBAL MEMORY LOCATIONS

NAMES USED FOR GLOBAL MEMORY LOCATIONS (LOCATIONS REFERENCED BY MORE THAN ONE SUBROUTINE) ARE FOUR CHARACTERS LONG.

### 3.5.4 CONSTANTS USED AS INSTRUCTIONS

FOUR LETTER TAG NAMES SHOULD END IN 'I' IF (AND ONLY IF) THE TAG NAME IS DEFINING AN INSTRUCTION.

FOR EXAMPLE:

```
LJMI EQU 100B *LJM* INSTRUCTION
SHNI EQU 1000B *SHN* INSTRUCTION
```

CONSTANTS USED AS INSTRUCTIONS SHOULD BE DEFINED AND USED EVEN THOUGH THE CONTENTS OF A DIRECT CELL IS BEING USED TO MODIFY AN INSTRUCTION.

EXAMPLE:

THE DIRECT CELLS HN AND TH (SEE SECTION 3.5.3.1) MAY BE USED TO MODIFY LJM AND SHN INSTRUCTIONS. THE CONSTANT USED AS AN INSTRUCTION SHOULD BE USED AS FOLLOWS:

```
      LDD      TH+SHNI+0
      LMN      1
      STM      TAGA
      .
      .
      .
TAGA  SHN      0
*     SHN      1      (COMMENT)
```

### 3.5.5 IF/ELSE/ENDIF SYMBOLS

SYMBOLS USED ON IF, ELSE, ENDF AND SKIP PSEUDO INSTRUCTIONS ARE OF THE FORM:

.A

WHERE:

A = LETTER FROM A TO Z

### 3.5.6 NON-LOCAL MACRO SYMBOLS

TO AVOID CONFLICTS WITH USER CODE, NON-LOCAL SYMBOLS DEFINED WITHIN MACROS ARE OF THE FORM:

.N

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WHERE:

N = NUMBER FROM 1 TO 99

### 3.5.7 LOW CORE LOCATION SYMBOLS

SYMBOLS THAT ARE USED TO DEFINE LOCATIONS IN LOW CORE (CMR) ARE OF THE FORM:

XXXL

### 3.5.8 CONTROL POINT AREA LOCATION SYMBOLS

SYMBOLS THAT ARE USED FOR DEFINING LOCATIONS IN THE CONTROL POINT AREA ARE OF THE FORM:

XXXM

### 3.5.9 MONITOR FUNCTION SYMBOLS

SYMBOLS USED FOR MONITOR FUNCTION REQUESTS ARE OF THE FORM:

XXXM

## 3.6 PSEUDO-INSTRUCTION USE, FORMAT AND PARAMETERS

### 3.6.1 BASE AND POST RADIX USE

THE BASE DECIMAL PSEUDO-OP IS USED IN ALL CPU CODE. THE BASE MIXED PSEUDO-OP IS USED IN ALL PPU CODE. POST RADIX IS ALLOWED FOR DATA FORMATS OTHER THAN OCTAL AND DECIMAL; IN SPECIFYING TIMING LOOPS WHERE DECIMAL VALUES ARE MORE MEANINGFUL TO HUMANS; AND WHERE EXTERNAL SPECIFICATIONS SUCH AS ANSI OR CORPORATE STANDARDS DICTATE THE USE OF A PARTICULAR FORMAT.

```
↑-----  
|                               -NOS/BE ONLY-  
|  
| BASE MIXED IS USED FOR COMPLETE, NEWLY WRITTEN PPU PROGRAMS.  
| CHANGES TO EXISTING PROGRAMS CONFORM TO THE EXISTING BASE.  
↑-----
```

### 3.6.2 EXTERNAL REFERENCES

THE EXT PSEUDO-OP IS NOT USED. ALL REFERENCES TO EXTERNAL NAMES USE THE FORM =XNAME. IN AN ABSOLUTE ASSEMBLY, REFERENCES TO LOCATIONS IN OTHER OVERLAYS USE THE FORM =XNAME.

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## 3.6.3 SPACE CARD FORMAT

THE FORMAT OF THE SPACE PSUEDO INSTRUCTION IS:

TAG        SPACE        4,N

WHERE:

TAG        =TABLE, MACRO OR SUBROUTINE NAME  
N         =STATEMENT COUNT

THE STATEMENT COUNT IS A MULTIPLE OF 5 THAT IS GREATER OR EQUAL TO 10. IT SHOULD BE LARGE ENOUGH TO AVOID BREAKING DOCUMENTATION ACROSS PAGE BOUNDARIES.

## 3.6.4 CONDITIONAL CODE

NUMERIC SKIP COUNTS ARE NOT USED WITH IF, IFC, ELSE, ETC., BECAUSE THIS MAKES CODE DIFFICULT TO READ (ESPECIALLY WHEN THE SKIPPED LINES ARE NOT LISTED). ENDFIF SHOULD BE USED INSTEAD. AN EXCEPTION IS ALLOWED FOR SYSTEMS TEXTS WHERE SPACE IS CRITICAL.

CONDITIONAL SEQUENCES SHOULD BE BRACKETED WITH LABELS (REFER TO SECTION 3.5.5) WHICH ALLOWS THEM TO BE EASILY SPOTTED AND MATCHED IN LISTINGS.

WHEN EITHER END OF A SEQUENCE OF CONDITIONAL CODE OCCURS AT A BREAK IN THE LISTING (SPACE, TITLE, OR BLANK LINES), THE SPACING CARDS SHOULD BE PLACED SO THAT SPACING WILL BE CORRECT WHETHER THE TEST IS TRUE OR FALSE. USUALLY THIS MEANS MOVING THE SPACING OUTSIDE THE CONDITIONAL CODE.

EXAMPLE:

```

      .
      .
      .
      EQ        TAG1                CONTINUE
      (BLANK CARD)                (OUTSIDE CONDITIONAL CODE)
.A    IFC       EQ,+'SYSTEM'+SCOPE+
TAG3   CONTROLC TAGA,R            READ CONTROL CARD
      EQ        TAGX               RETURN
      (BLANK CARD)
TAGA   CON       10B               CONTROLC READ FUNCTION
.A    ELSE
TAG3   CONTROL   CCOR              READ CONTROL CARD
      EQ        TAGX               RETURN
.A    ENDFIF
ABC   SPACE      4,10              (OUTSIDE CONDITIONAL CODE)

```

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### 3.6.5 MACROS

MACRO DEFINITIONS SHOULD INCLUDE A DESCRIPTION OF HOW THE MACRO IS CALLED AND A DESCRIPTION OF ALL FORMAL PARAMETERS.

THE PURGMAC PSUEDO INSTRUCTION SHOULD BE USED TO DISABLE ANY PREVIOUS MACRO DEFINITIONS OF THE SAME NAME.

NON-LOCAL SYMBOL DEFINITIONS SHOULD BE OF THE FORM .N (SEE SECTION 3.5.7).

TO AVOID TERMINATING MULTIPLE MACRO DEFINITIONS, THE ENDM INSTRUCTION SHOULD BE LABELED WITH THE MACRO NAME.

### 3.7 TESTS.FOR.OVERFLOW

CPU AND PPU PROGRAMS SHOULD CONTAIN ASSEMBLY CHECKS FOR CERTAIN TYPES OF OVERFLOW CONDITIONS. THE FOLLOWING POINTS SHOULD BE CONSIDERED WHEN MAKING THE CHECKS.

PPU PROGRAMS AND OVERLAYS ARE GENERATED BY COMPASS IN MULTIPLES OF 5 PPU BYTES (1 CM WORD). THEREFORE, WHEN READING AN OVERLAY FROM CENTRAL MEMORY TO PPU MEMORY, MORE PPU BYTES MAY BE DESTROYED THAN THE ACTUAL NUMBER OF BYTES OF PPU CODE.

OVERLAYS LOADED FROM MASS STORAGE TO PPU MEMORY COME IN MULTIPLES OF 500 PPU BYTES. AT LEAST 5 BYTES OF THE LAST PRU ARE REQUIRED TO REPRESENT END OF RECORD WHICH CAN INCREASE THE SIZE OF THE OVERLAY BY ONE PRU (500 BYTES).

CARE SHOULD BE TAKEN TO ENSURE THAT THE LITERALS BLOCK HAS BEEN DEFINED BEFORE CHECKING FOR THE OVERFLOW CONDITIONS.

#### 3.7.1 CM LOADS

ALL PPU PROGRAMS INCLUDE A TEST FOR THE AMOUNT OF CORE REMAINING AFTER A CM LOAD AS SHOWN IN THE FOLLOWING EXAMPLE:

	USE	OVERFLOW	
XXX	BSS	0	
	ERRNG	7772-XXX	PPU MEMORY OVERFLOW

WHERE:

XXX -TAG FOR THE LAST LOCATION DEFINED

#### 3.7.2 TABLE OVERFLOW

IF A PPU PROGRAM USES MORE STORAGE THAN IT DECLARES, ITS LENGTH IS CHECKED AS SHOWN IN THE FOLLOWING EXAMPLE:

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	USE	OVERFLOW	
XXX	BSS	0	
XXXL	EQU	XXX+XXXL	
ERRNG		7777-XXXE	CHECK FOR OVERFLOW

WHERE:

XXX =TAG FOR THE LAST LOCATION DEFINED  
 XXXL=LENGTH OF UNDECLARED SPACE  
 XXXE=END OF SPACE USED

### 3.7.3 MASS STORAGE LOADS

```

+-----+
I          -NOS ONLY-
I
I A TEST WILL BE INCLUDED IN EACH PPU PROGRAM WHICH MAY RESIDE
I ON MASS STORAGE. THIS TEST WILL PROTECT AGAINST A LOAD WHICH
I EXCEEDS THE END OF MEMORY IN THE PPU CAUSING WRAP AROUND. THE
I 'OVERFLOW' MACRO IS AVAILABLE IN COMPMAC FOR THIS OPERATION.
+-----+
  
```

### 3.7.4 OVERLAY LOADS

PROGRAMS CALLING OVERLAYS SHOULD TEST FOR MEMORY OVERFLOW WITH THE FOLLOWING TEST:

ERRNG (LWA+1)-(LOAD ADDR)-LEN COMMENT

WHERE:

LWA+1 = FIRST BYTE NOT TO BE DESTROYED BY THE ZERO  
 LEVEL OVERLAY  
 LOAD ADDR = ADDRESS WHERE THE OVERLAY IS LOADED  
 LEN = LENGTH OF OVERLAY

THE LENGTH OF AN OVERLAY IS DEFINED TO BE THE NUMBER OF BYTES DESTROYED BY THE OVERLAY DURING LOADING AND EXECUTION. THE OVERLAY SHOULD ALSO CONTAIN A TEST TO ENSURE THAT IT DOES NOT EXCEED ITS DEFINED LENGTH. THE OVERLAY LENGTH CAN BE ADJUSTED TO A HIGHER OR SMALLER VALUE AS LONG AS NONE OF THE TESTS FAIL.

### 3.8 RELOCATABLE CPU CODE

THE FIRST WORD OF A RELOCATABLE CPU PROGRAM SHOULD BE OF THE FORMAT:

42/OLDECK, 18/AOOR

THIS WORD IS CAN BE USED TO LOCATE THE FIRST WORD ADDRESS AND ENTRY POINT OF A ROUTINE IN A CM DUMP.

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WHERE:

DECK = DECK NAME

ADDR = ENTRY ADDRESS OF PROGRAM

THE CONTENTS OF AO MUST NEVER BE USED IN A LIBRARY LEVEL ROUTINE  
UNLESS IT IS SAVED AND RESTORED. AO IS USED BY FTM AS A BASE  
REGISTER FOR FORMAL PARAMETERS IN SUBROUTINE LINKAGES.

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#### 4.0 MISCELLANEOUS

##### 4.1 PROGRAM NAMING

###### 4.1.1 LENGTH OF PROGRAM NAME

PERIPHERAL PROCESSOR PROGRAM NAMES ARE 3 CHARACTERS LONG.

CENTRAL PROCESSOR PROGRAM NAMES ARE 4 TO 7 CHARACTERS LONG.

###### 4.1.2 RESERVED NAMES

THE FOLLOWING PPU PROGRAM NAMES ARE RESERVED OR PRESENTLY DEFINED FOR USE (X MEANS ANY CHARACTER LEGAL IN A PPU PROGRAM NAME AND N MEANS ANY NUMBER BETWEEN 0 - 9):

UXX	RESERVED FOR INSTALLATIONS
NUX	RESERVED FOR INSTALLATIONS
9AA-9T9	RESERVED FOR SYSTEM USE
9VA-9Z9	RESERVED FOR SYSTEM USE
90A-929	RESERVED FOR DIAGNOSTICS
93A-939	RESERVED FOR SYSTEM USE

-----	
I	-NDS ONLY-
I	
I	
I	
I	6XX CALLABLE MASS STORAGE DRIVERS
I	7XX MASS STORAGE ERROR PROCESSING OVERLAYS
I	9AA-9D9 DSD OVERLAYS
I	9EA-9F9 DIS OVERLAYS
I	9GA-9G9 D26 OVERLAYS
I	0XX LOCATION FREE OVERLAYS
I	OCX CONTROLWARE IDENTIFICATION PROCESSORS
I	OPX PACK NUMBER IDENTIFICATION PROCESSORS
I	OTX AUTOMATIC TRACK FLAW PROCESSORS
I	
I	UXXL PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I	UXXM PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I	UXXP PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I	UXXW PPCOM SYMBOL - RESERVED FOR INSTALLATIONS
I	
-----	

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```

-----
I          -NOS/BE ONLY-
I
I
I
I      0FA-0F9   RESERVED FOR SYSTEM USE
I      0ZA-0Z9   RESERVED FOR SYSTEM USE
I      1ZA-1Z9   INTERCOM DRIVERS
I      8XX      RESERVED FOR SYSTEM USE
I
-----

```

#### 4.1.3 COMMON DECK NAMES

COMMON DECK NAMES ARE SEVEN CHARACTERS IN LENGTH AND IN THE FOLLOWING FORM:

COMXAAA

WHERE:

AAA = THE NAME OF THE ROUTINE OR A SYMBOLIC NAME IF NO ROUTINE NAME.

X = ONE OF THE FOLLOWING COMMON DECK INDICATORS:

C = CPU CODE

P = PPU CODE

S = SUBSYSTEM TEXT SYMBOLS, CONSTANTS ETC.

D = DISPLAY DRIVER CODE

T = TABLES

M = MASS STORAGE ERROR EQUIVALENTS

B = DATA MANAGER

K = TRANSACTION SUBSYSTEM

I = INITIALIZATION

#### 4.2 CODE TRANSMITTAL RULES

CODE WHICH IS TO BE INTEGRATED INTO A SYSTEM BUILD FOR EVENTUAL RELEASE TO THE FIELD IS IDENTIFIED AND FORMATTED AS DESCRIBED IN THIS SECTION.

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## 4.2.1 GENERAL RULES

EACH EXTERNAL PSR BEING ANSWERED HAS A CORRESPONDING CORRECTIVE CODE IDENTIFIER (TO BE DESCRIBED LATER). CORRECTIVE CODE ANSWERING OTHER PSRS IS NOT INCLUDED IN THE MODIFICATION UNDER THIS IDENTIFIER. EXCEPTIONS ARE ALLOWED WHERE REQUIRED BY INTERRELATED MODIFICATIONS FOR SEVERAL PSRS.

CORRECTIONS ARE PLACED IN ASCENDING ORDER; I. E., THE CORRECTIONS ARE SORTED IN THE SAME ORDER THAT THE LINES BEING CORRECTED APPEAR ON THE PROGRAM LIBRARY. IF A SINGLE MODIFICATION CHANGES SEVERAL DECKS, THEN THE CORRECTIONS ARE ALSO SORTED IN THE ORDER THAT THE DECKS APPEAR ON THE PROGRAM LIBRARY.

CORRECTIONS MODIFYING LINES WITH PREVIOUSLY MODIFIED SEQUENCE NUMBERS INCLUDE THE LINE NUMBER OF THE NEAREST PRECEDING ORIGINAL LINE IN PARENTHESIS IN THE COMMENTS FIELD OF THE MODIFY DIRECTIVE.

## 4.2.2 NOS MODSET FORMAT

## 4.2.2.1 MODSET IDENTIFIER

THE NOS MODSET IDENTIFIER CONSISTS OF THREE TO FIVE ALPHANUMERIC CHARACTERS WHICH ARE EXTRACTED FROM THE DECK NAME AS FOLLOWS:

1. FOR COMMON DECKS THAT BEGIN WITH 'COM' USE THE LAST FOUR CHARACTERS OF THE NAME.
2. FOR PPU PROGRAMS USE THE THREE CHARACTER PROGRAM NAME.
3. ALL OTHER DECKS USE THE FIRST FIVE CHARACTERS OF THE DECK NAME; IF THE DECK NAME IS LESS THAN SIX CHARACTERS USE THE ENTIRE DECK NAME.
4. MODIFICATIONS WHICH INVOLVE MULTIPLE DECKS ARE GIVEN THE MODSET IDENTIFIER 'KRANNN'.
5. MODIFICATIONS WHICH ONLY CORRECT DOCUMENTATION WITHIN A DECK ARE LUMPED TOGETHER FOR EACH CORRECTIVE CODE RELEASE AND GIVEN THE MODSET IDENTIFIER 'DOKNN'. THIS DOES NOT INCLUDE LINES OF CODE WHICH HAVE DOCUMENTATION CHANGES IN THEM.
6. IF A MODSET IS ADDING A NEW FEATURE, THE FEATURE IDENTIFIER FOR EACH DECK MODIFIED IS OBTAINED FROM NOS CODE CONTROL.
7. UPON RELEASE OF THE SYSTEM, A 'COMPOSITE' MODSET IS GENERATED FROM ALL FEATURE CODE WHICH IS TO BE RELEASED. THE NAMES INCLUDE:

K21000 - KRONOS 2.1 OS  
K22000 - KRONOS 2.1.2/NOS 1.0 OS  
N11000 - NOS 1.1 OS  
N12000 - NOS 1.2 OS

FUTURE FEATURE CODE MODSETS WILL FOLLOW THE SAME FORMAT.

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#### 4.2.2.2 MODSET SEQUENCE NUMBER

THE MODSET SEQUENCE NUMBER IS A ONE TO THREE DIGIT NUMBER APPENDED TO THE MODSET IDENTIFIER.

#### 4.2.2.3 MODSET CORRECTION LETTER

WHEN A MODSET IS CORRECTING A PREVIOUS MODSET, ONE ALPHABETIC CHARACTER (STARTING WITH A) WILL BE APPENDED TO THE SEQUENCE NUMBER. WHENEVER A MODSET CORRECTION LETTER OF 'B' OR ABOVE IS REQUIRED, THE COMMENTS HEADER OF THE MODSET MUST INDICATE WHICH PREVIOUS MODSET IS BEING CORRECTED.

#### 4.2.2.4 OVERFLOW

WHENEVER A MODSET IDENTIFIER USING THE ABOVE CONVENTIONS EXCEEDS SEVEN CHARACTERS, TRUNCATE THE LAST CHARACTER(S) OF THE DECK NAME TO REDUCE THE IDENTIFIER TO SEVEN CHARACTERS.

#### 4.2.2.5 MODSET EXAMPLE

THE FOLLOWING FORMAT IS USED FOR CORRECTIVE CODE MODSETS:

1	11	18	30	(COLUMN NUMBERS)
+-----+-----+-----+-----+				
IDENT				
*IDENT	IDENT	INITIALS.	YY/MM/DD.	
*/	****	SYSTEM.		
*/	****	PSR NUMBER.		
*/	*****	COMMENTS.		
*/	(CONTINUATION OF COMMENTS).			
*DECK	DECKNAME			
*I,	SEQUENCE NUMBER			
*O,	SEQUENCE NUMBER			
*D,	MODNAME.	SEQUENCE NUMBER	(NEAREST ORIGINAL	SEQ. NO.)
*EDIT	DECKNAME		(IF COMMON DECK)	
*/	END OF MODSET.			

WHERE:

IDENT	= MODSET IDENTIFIER.
YY/MM/DD	= DATE OF LAST MODSET CHANGE.
SYSTEM	= NAME OF SYSTEM IN WHICH THE MODSET WILL BE RELEASED. (IE - NOS 1.2 OS. OR NOS 2.0 OS.)

COMMENTS ARE TO BE INCLUDED TO INDICATE WHAT THE CORRECTIVE CODE IS FIXING. THE \*READPL DIRECTIVE IS NOT USED.

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#### 4.2.3 NOS/BE CORRECTION SET FORMAT

##### 4.2.3.1 CORRECTION SET IDENTIFIER

THE IDENTIFIER USED FOR PSR CORRECTIONS IS THE EXTERNAL PSR NUMBER. WHEN INTERNAL PSRS ARE ANSWERED, AN EXTERNAL PSR NUMBER IS OBTAINED BEFORE SUBMITTING THE CODE FOR INTEGRATION. THE IDENTIFIERS USED FOR FEATURE CODE WHICH MODIFIES EXISTING DECKS ARE OF THE FORM:

FNNNNAA

WHERE:

NNNN = THE FOUR DIGIT FEATURE NUMBER OBTAINED FROM THE SOFTWARE IMPLEMENTATION PLAN.

AA = TWO ALPHABETICAL CHARACTERS ASSIGNED BY THE PROJECT LEADER FOR EACH DECK MODIFIED.

FEATURE CODE WHICH ADDS NEW DECKS FOLLOW THE PROCEDURE IN SECTION 4.2.3.4. CORRECTIVE CODE AGAINST FEATURES DURING THE I AND E CYCLE USE IDENTIFIERS OF THE FORM:

CNNNNYY

WHERE:

NNNN = THE FOUR DIGIT FEATURE NUMBER BEING CORRECTED.

YY = TWO ALPHABETICAL CHARACTERS ASSIGNED BY THE PROJECT LEADER.

##### 4.2.3.2 CORRECTION HISTORY

EACH CORRECTION SET INCLUDES CARDS TO BE INSERTED IN THE HISTORY DECK WHICH CONTAIN A DESCRIPTION OF THE CHANGE BEING MADE (INCLUDING THE PROBLEM DESCRIPTION FOR PSRS), THE DATE OF THE MODIFICATION, AND A LIST OF THE DECKS MODIFIED. THESE CARDS APPEAR FOLLOWING THE IDENT CARD AND BEFORE THE FIRST CORRECTION TO THE CODE.

##### 4.2.3.3 CORRECTION APPLICABILITY

IF CODE IS APPLICABLE TO MORE THAN ONE VERSION OF A PARTICULAR PRODUCT, SUCH APPLICABILITY IS SHOWN ON AN UPDATE COMMENT CARD PLACED IMMEDIATELY AFTER THE IDENT CARD.

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#### 4.2.3.4 NEW DECKS

THE RECOMMENDED WAY OF ADDING A NEW DECK OR COMMON DECK IS AS FOLLOWS:

```
*IDENT NAME
*BEFORE NEXTDECK.1
*DECK NAME
  OR
*COMDECK NAME
```

THE USE OF IDENTICAL NAMES FOR IDENT AND DECK PRODUCES PROPER SEQUENCE NUMBERS ON THE RESULTING PL.

#### 4.2.3.5 SPECIAL UPDATE DIRECTIVES

THE UPDATE DIRECTIVES ADDFILE, COPY, AND DECLARE ARE NOT USED IN PSR CORRECTION SETS.

#### 4.2.3.6 CORRECTION SET EXAMPLE

```
*IDENT  IDENT
*/      CORRECTION APPLICABILITY (OPTIONAL)
*B,HISTORY.2
  IDENT  DESCRIPTION OF PROBLEM AND CORRECTION
          (CONTINUATION OF DESCRIPTION)
          YY/MM/DD                DECKS MODIFIED
*I,SEQUENCE NUMBER
*D,SEQUENCE NUMBER                (NEAREST ORIGINAL LINE NO.)
  .
  .
  .
+C      DECKS MODIFIED
```

### 4.3 INTERFACE CONSIDERATIONS

#### 4.3.1 SYSTEM SUPPLIED INTERFACES

ALL INTERACTIONS BETWEEN PROGRAMS (CPU AND PPU) AND THE SYSTEM USE SYSTEM-SUPPLIED MACROS, LINKAGE LABELS OR COMMON DECKS. IN PPU PROGRAMS THE SYSTEM DEFINED DIRECT CELLS ARE ONLY USED AS DEFINED BY THE SYSTEM. (SEE SECTION 3.5.3.1)

#### 4.3.2 PARAMETER VALIDATION

EACH PARAMETER PASSED BETWEEN PROGRAMS WILL BE VALIDATED OR PROCESSED IN A WAY THAT PROTECTS THE PROGRAM FROM UNCONTROLLED ACTIONS CAUSED BY UNEXPECTED VALUES.

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#### 4.3.3 MEMORY ACCESS

PPU PROGRAMS WHICH ACCESS THE FIELD LENGTH OF A JDB WILL ENSURE THAT NO COMBINATION OF PARAMETERS, ERRORS, ETC. WILL CAUSE ACCESS TO AN ADDRESS OUTSIDE OF THAT FIELD LENGTH. ADDRESSES SHOULD BE VALIDATED PRIOR TO USING THEM FOR A CM READ OR WRITE TO AVOID REFERENCING AREAS OF MEMORY OUTSIDE OF THE CONTROL POINTS FIELD LENGTH.

#### 4.3.4 SECURITY

PROGRAMS THAT PERFORM PRIVILEGED FUNCTIONS MUST ENSURE THAT THE REQUESTER OF THE FUNCTION HAS BEEN GIVEN PERMISSION BY THE SYSTEM TO USE THE FUNCTION. THIS ALSO APPLIES TO THE USE OF SPECIAL DEVICE DRIVERS, WHICH COULD BE CALLED ACCIDENTALLY OR MALICIOUSLY BY UNAUTHORIZED USERS. WHERE COMMON DECKS ARE AVAILABLE TO CHECK SECURITY OR PRIVILEGES, THEY SHOULD BE USED RATHER THAN LOCALLY WRITTEN CODE.

#### 4.3.5 RESERVATIONS AND INTERLOCKS

RESERVATIONS AND INTERLOCKS ARE ONLY USED AS DEFINED BY THE SYSTEM AND ARE RELEASED AS SOON AS POSSIBLE. NON-ESSENTIAL CODE IS NOT EXECUTED WHILE A RESERVATION OR INTERLOCK IS IN EFFECT.

IN CASES WHERE A RESERVATION REJECT COULD OCCUR, THE PROGRAM WILL:

1. CONTROL THE RATE OF RESERVATION RE-ISSUE.
2. DETECT AND RESPOND TO ERROR CONDITIONS.
3. PROTECT AGAINST STORAGE MOVE LOCKUP.

PROGRAMS WHICH USE RESERVATIONS AND INTERLOCKS WILL ENSURE THAT THE CONDITIONS ARE RELEASED NO MATTER WHAT PROGRAM PATH IS TAKEN.

WHEN MULTIPLE INTERLOCKS ARE REQUIRED, ALL PROGRAMS IN THE OPERATING SYSTEM MUST REQUEST THE INTERLOCKS IN THE SAME ORDER. WHEN A REJECT OCCURS WHEN ATTEMPTING TO OBTAIN SUCH INTERLOCKS, ALL RESERVATIONS HELD MUST BE RELEASED AND THE ENTIRE SEQUENCE OF INTERLOCKING MUST BEGIN AGAIN.

UNDER NOS, CARE MUST BE TAKEN TO NOT ISSUE DAYFILE MESSAGES, LOAD OVERLAYS, OR PAUSE WITH NON-DEDICATED CHANNEL(S) RESERVED.

#### 4.3.6 DOCUMENTING HARDWARE DEFICIENCIES

INSTRUCTIONS WHICH ARE INCLUDED TO COMPENSATE FOR HARDWARE DEFICIENCIES ARE DOCUMENTED WITH A BRIEF DESCRIPTION OR IDENTIFICATION OF THE DEFICIENCY.

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#### 4.4 MODULARITY

##### 4.4.1 PPU OVERLAYS

PPU PROGRAMS USE OVERLAYS WHENEVER POSSIBLE TO IMPROVE THE LONG RANGE PERFORMANCE OF THE SYSTEM. OVERLAYS ARE USED FOR ANY SELDOM EXECUTED CODE SUCH AS ERROR HANDLING AND SELDOM USED FEATURES.

##### 4.4.2 HELPER PPU-S

HELPER PPUS ARE NOT USED UNLESS NO OTHER METHOD EXISTS. THE AVAILABILITY OF PPUS WHEN NEEDED SHOULD BE CONSIDERED.

##### 4.4.3 COMMON DECKS

A COMMON DECK CONTAINING EXECUTABLE CODE CONSISTS OF ONE OR MORE SUBROUTINES (AS DEFINED IN SECTIONS 3.2.6 AND 3.2.7) AND ANY ASSOCIATED DATA STORAGE AREAS. THE PURPOSE OF COMMON DECKS IS TO INCREASE EFFICIENCY IN WRITING CODE, ENSURE UNIFORMITY OF CODE AND DECREASE DEBUGGING TIME. COMMON DECKS CONTAIN OPTIMIZED CODE AND EXTERNAL INTERFACES THAT ARE GENERALIZED TO FACILITATE THEIR USE IN FUTURE PROGRAMS. THESE DECKS SHOULD BE USED IN PREFERENCE TO LOCAL CODE WHENEVER POSSIBLE.

COMMON DECKS WHICH CONTAIN ONLY MACROS ARE NOT QUALIFIED. 'S' TYPE COMMON DECKS ARE NOT QUALIFIED BY THE QUAL PSEUDO-OP WITHIN THE COMMON DECK. IF AN 'S' TYPE COMMON DECK IS QUALIFIED EXTERNALLY, THE QUALIFIER IS THE THREE CHARACTER NAME OF THE ROUTINE. FOR EXAMPLE:

COMSAAA (WHERE AAA IS THE QUALIFIER)

#### 4.5 DAYFILE.MESSAGES

```

+-----+
I           -NOS ONLY-
I
I DAYFILE MESSAGES ISSUED TO THE USER OR SYSTEM DAYFILE BEGIN
I WITH A BLANK CHARACTER AND END WITH A PERIOD. DAYFILE
I MESSAGES SHOULD NOT EXCEED 40 CHARACTERS.
+-----+
    
```

#### 4.6 UNHANGABLE.CHANNEL.CODE

TO AVOID CHANNEL HANGS, BIT 2\*5 IS SET ON SOME PPU CHANNEL INSTRUCTIONS. THIS SHOULD ONLY BE USED WHEN UNDESIRABLE SIDE AFFECTS WILL NOT RESULT AND WHERE IT IS POSSIBLE TO TAKE CORRECTIVE ACTION. (FOR EXAMPLE: DISCONNECTING AN INACTIVE CHANNEL WILL NOT RESULT IN UNDESIRABLE EFFECTS.) BIT 2\*5 SHOULD

LOWER CYBER SYSTEMS PROGRAMMING STANDARD.

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NOT BE USED WHEN UNPREDICTABLE RESULTS MAY OCCUR. BIT 2\*\*5 IS NOT  
USED WITH CHANNEL 15.

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# APPENDIX.A.v.ABBREVIATIONS

STANDARD INDUSTRY ABBREVIATIONS MAY BE USED EVEN THOUGH THEY ARE NOT INCLUDED IN THE FOLLOWING APPENDIX.

## A.1 GENERAL ABBREVIATIONS

BOI	BEGINNING OF INFORMATION
CLD	CENTRAL LIBRARY DIRECTORY
CM	CENTRAL MEMORY
CMM	COMMON MEMORY MANAGER
CMR	CENTRAL MEMORY RESIDENT
CP	CONTROL POINT
CPA	CONTROL POINT AREA ADDRESS
CPU	CENTRAL PROCESSING UNIT
CR	CARRIAGE RETURN
CW	CONTROL WORD
ECS	EXTENDED CORE STORAGE
EOF	END OF FILE
EOI	END OF INFORMATION
EOL	END OF LINE
EOR	END OF RECORD
EST	EQUIPMENT STATUS TABLE
ETX	END OF TEXT
FDX	FULL DUPLEX
FET	FILE ENVIROMENT TABLE
FL	FIELD LENGTH
FLE	FIELD LENGTH FOR ECS
FNT	FILE NAME TABLE
FST	FILE STATUS TABLE
FWA	FIRST WORD ADDRESS
HDX	HALF DUPLEX
I/O	INPUT/OUTPUT
LFN	LOGICAL FILE NAME
LWA	LAST WORD ADDRESS
MMF	MULTI-MAINFRAME
MS	MASS STORAGE
MST	MASS STORAGE TABLE
MT	MAGNETIC TAPE
MUX	MULTIPLEXER
PF	PERMANENT FILE
PFN	PERMANENT FILE NAME
PLD	PERIPHERAL LIBRARY DIRECTORY
PPU	PERIPHERAL PROCESSING UNIT
PRU	PHYSICAL RECORD UNIT
RA	REFERENCE ADDRESS
RAE	REFERENCE ADDRESS FOR ECS
RCL	RESIDENT CENTRAL LIBRARY

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RPL	RESIDENT PERIPHERAL LIBRARY
RMS	ROTATING MASS STORAGE
SCR	STATUS AND CONTROL REGISTER
SECEDED	SINGLE ERROR CORRECTION, DOUBLE ERROR DETECTION
SUBCP	SUBCONTROL POINT
TRT	TRACK RESERVATION TABLE
TTY	TELETYPE

## A.2 NETWORK HOST PRODUCTS ABBREVIATIONS

ABH	APPLICATION BLOCK HEADER
ABL	APPLICATION BLOCK LIMIT
ABN	APPLICATION BLOCK NUMBER
ABT	APPLICATION BLOCK TYPE
ACN	APPLICATION CONNECTION NUMBER
ACT	APPLICATION CHARACTER TYPE
ADR	ADDRESS INFORMATION
ALN	APPLICATION LIST NUMBER
CLA	COMMUNICATIONS LINE ADAPTER
IBU	INPUT BLOCK UNDELIVERABLE
IVT	INTERACTIVE VIRTUAL TERMINAL
NFE	NO FORMAT EFFECTORS
NPU	NETWORK PROCESSING UNIT
PFC	PRIMARY FUNCTION CODE
SFC	SECONDARY FUNCTION CODE
SM	SUPERVISORY MESSAGE
SMP	SUPERVISORY MESSAGE PROCESSOR
TA	TEXT AREA
TLC	TEXT LENGTH CHARACTERS
TLMAX	MAXIMUM LENGTH OF DATA MESSAGE BLOCK TEXT
TNAME	TERMINAL NAME

## A.3 ACRONYMS

AIP	APPLICATION INTERFACE PROGRAM
IAF	INTERACTIVE FACILITY
NAM	NETWORK ACCESS METHOD
RBF	REMOTE BATCH FACILITY
TAF	TRANSACTION FACILITY
TIP	TERMINAL INTERFACE PROGRAM

RA =	E,0,10100.		EXPRESS 11	DSDI - V2.0	79/10/30.	15.19.35.	PAGE	1
0000000	CM	16.23.30.	79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.			
0000000	00000000000000000000	00046477002400757777	00072015000000245400	56400004145000000003		D T	GPM T= ,5 DL/ C	
0000004	60207776000000035670	57206020576000000000	00010016000756330000	00072464000757060006	P	C, .P P.	A N G,0 GT G.F F	
0000010	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0000020	000000000000000000760	23312324051555000000	00000000000103301700	00000000000000003033		G SYSTEM	ACX0 X0	
0000024	00000000000176052621	00000000000000000000	00000000004244353544	00000000111021202736		A EVQ	79229 I11QPW3	
0000030	55344157353657363357	55424450334350344257	55513640525503310205	22553442375523501655		16.23.30. 79/08/17. (35) CYBER 174 S/N		
0000034	41353355031423105700	00000000000000000000	16172355344643123336	24502235025700000000		620 CLSH.	NOS 1-8J03T/R2B.	
0000040	000000000000000000001	0000000000000100434	00000000000100020303	01001227340000120000		A HD1	A BCCA JW1 J	
0000044	00010000002300220002	00000003002100000000	00000000000000000000	00000000000000000000		A S R B C Q		
0000050	000000000000000005520	00000234257717455000	30766010301005743001	34131442341214610200		P BIU 0+/ X	HXHE XA1KL71JL B	
0000054	03363014010001777761	00000000000000000000	00000000000000000000	77777620300032000000		C3XLA A	PX Z	
0000060	000000000000000045776	00000000160000001600	0000000000000046016	00043224000000000000		D. N N	D N DZT	
0000064	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0000074	00000000000000000000	00000000000000000000	04000000760000000000	00043132000000000436			D	DYZ D3
0000100	000000150000000000007	00030000001100010000	00170000000000000000	00000000000000000000		M G C I A	0	
0000104	00000000000000000000	00000000000000000000	00103257000203417074	00000000000000000000			HZ. BC6	
0000110	00000000000000130101	00070006000000000000	00000000000000000000	33134220000000000000		KAA G F		OK7P
0000114	00000000600100040113	0000000000001600000	00000000000000000000	40301000000000000000		A DAK	A	5XH
0000120	00000000600100000113	00000000000000200000	00000000000010000010	41350000000000000000		A AK	P	H 1162
0000124	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0000130	00000000560100060000	00000000000000252022	00165675000035131620	00000000023500007062		A F	UPR N,	2KNP B2
0000134	00000000000000001023	00000000000000000000	00000000000000000000	00000000000000000000		HS		
0000140	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0000174	00000000000000000000	00000000000000000000	00000000000000000000	06162414112324000000				FNTLIST
0000200	00006613015424000000	00076000000001000001	00020500000053000000	70070000015152000000		KA=T G	A A RE	5 G A()
0000204	000000000007121017002	00000000000135000040	00000200000001000100	000000000000542000074		QA B	A2 5 B	A A E7
0000210	40000000000000000000	00000000000000000000	00000000000000000000	00000000000000015243	5			A)B
0000214	00000000000000000000	00000000000176052567	2411152000050000135	00000000000000000054			A EU TIMP E	A2
0000220	200000000000007600205	110106555555500000	00777776000000000000	00000616000000040000	P	G BEIAF		FN D
0000224	00000000000176052620	00000000000000000000	00000000000000000000	00000000000000000650		A EVP		
0000230	55160524271722135503	17161605032405045700	00000000000000000000	55270111241116075506		NETWORK CONNECTED.		WAITING F
0000234	17225516052427172213	00000000000000000000	00000000000000000000	00000000000000000000		OR NETWORK		
0000240	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0000250	00000000000000000000	00000120071612504000	00030500000000000011	00000000000000000000		APGNJ/5	CE	I
0000254	00000000000000000000	00000000000000000000	77777777777777777777	77777777777777777777				
0000260	00007777777777777777	00000000000000000000	37770205377700000000	00000000000000000000			4 BE4	
0000264	00000000000040000000	00000000000000000000	00000000000000130000	00000000000000377777	5			K 4
0000270	00000000000000000000	62250000000000000000	00004000000701410152	00054035403500010001		U	5 GA6A)	E5252 A A
0000274	01010214000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AABL			
0000300	00000000000000000000	40000000000000000000	00000000000000000000	00000000000000000000		5		
0000310	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777777777				4
0000314	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0000330	22052425221656110106	05305755000000000000	17162327513452550000	17162327513652550000		RETURN,IAFEX.	ONSW(1) ONSW(3)	
0000334	17162327514052550000	17162327514152550000	27101114055624222505	56141717205700000000		ONSW(5) ONSW(6)	WHILE,TRUE,LOOP.	
0000340	11010605305700000000	11010605303557550000	23131120561417172034	57550000000000000000		IAFEX.	SKIP,LOOP1.	
0000344	05301124575500000000	11010605303557550000	05160411065614171720	34570000000000000000		EXIT.	ENDIF,LOOP1.	
0000350	05160427561417172057	00000000000000000000	00000000000000000000	00000000000000000000		ENDW,LOOP.		
0000354	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000				
0000400	00003206025562000000	00116600000001000001	00071400004310000000	70070000002603000000	ZFB	I	A A GL 8H G VC	
0000404	00000000002577000003	00000000004307000003	00000400000001777016	00000000002612000000	U	C	8G C D A N VJ	

RA -	E.O.10100.	EXPRESS 11	DSDI - V2.0	79/10/30.	15.19.35.	PAGE	2
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NDS 1-8J03T/R2B.	NDS 1.4 STUDY DUMP.			
0000410	77777777000000000000	00000000000000000000	77777777000000000000	00000000000000001011			HI
0000414	00100434000176052566	0000000000000000574	24111520000500002601	00000000000000001750	HD1 A EU	E T I M P E VA	O/
0000420	20000000000011660714	24010655555550000000	00727772000000000000	00000321000000010000	P I GLTAF		CQ A
0000424	00000000000176052616	00000000000000000000	00000000000000000000	00000000000000003000	A EVN		X
0000430	2503152356555553433	37435740424113251623	57000000010050263014	54157776340314043404	UCMS,	1048.576KUNS.	A /VXL=M 1CLD1D
0000434	37040712300335031012	00000000000000000000	11240123130000000000	0000000000000350000	4DGJXC2CHJ	ITASK	2
0000440	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0000450	00000000000000000000	00000051052173200000	3134410000000000365	00000000000000000000		(EQ P Y16 C	
0000454	00000000000000000000	00000000000000000000	77777777777777777777	77777777770000000000			
0000460	00007777777000000000	00000000000000000000	37771200377700000000	00000000000000000000		4 J 4	
0000464	00000000000040000000	00022033000000000000	00000000000000130000	00000000000000000016		5 BPO	K N
0000470	00000000000000004076	61070000000000000000	00000000001201630170	00014135413500010001		5 G	JA A A6262 A A
0000474	01010216000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AABN		
0000500	01000022600037002360	00000000000000000000	00000000000000000000	00000000000000000000	A R 4 S		
0000504	00000000000000000000	00003145000000012423	00000000000000000000	00000000000000000000		Y+ ATS	
0000510	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000			4
0000514	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0000530	47474747474747474747	47474747474747474747	47474747474747474747	47474747474700000000	*****		
0000534	47555555555555555555	55555555555555555555	55555555555555555555	55555555554700000000	*		*
0000540	47555555555555555555	24550155055503551455	23551055555555555555	55555555554700000000	*	T A F C L S H	*
0000544	47555555555555555555	55555555555555555555	55555555555555555555	55555555554700000000	*		*
0000550	47474747474747474747	47474747474747474747	47474747474747474747	47474747474700000000	*****		
0000554	27221124052251172524	20252452000000000000	17162327514052550000	17162327513752550000	WRITER(OUTPUT)	ONSW(5)	ONSW(4)
0000560	22061456343533333333	57550000000000000000	24010616011534570000	04150457000000000000	RFL,120000.	TAFNAM1.	DMD.
0000564	04150451335636424242	42425255000000000000	24010616011535570000	07172417513552550000	DMD(0,377777)	TAFNAM2.	GOTO(2)
0000570	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0000600	00007415001537000000	00216600000001013313	00015500005131005132	70070000000204000303	M H4 Q	AAOK A (Y (Z G	BD CC
0000604	000000000005127012706	000000000000164013025	000000600000001002561	000000000006745013025	(MAWF	A AXU F A U	+AXU
0000610	77777777777777777775	00000000000000000000	00000000000000000000	00000000000000000001			A
0000614	00000000000000000004	00000000000000011467	22031400000000000000	00000000000000000000	D	AL RCL	
0000620	20020000000021660155	16011555555555000000	00747770000000000000	00000321000000010000	PB	Q A NAM	CQ A
0000624	00000000000176052621	00000000000000000000	00000000000000000000	00000000000000000000	A EVQ		
0000630	14111605005514353755	5555555605165635756	01345616170405365555	00000000000000000000	LINE L24	EN,24,A1,NODE3	
0000634	43000002000000501510	00000000000000000000	22552324172201070555	51031552575555000000	8 B /MH	R STORAGE (CM).	
0000640	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0000650	00000000000000000000	00000134524644030000	03072440000000000056	00000000000000000000		A1)-9C	CGT5 ,
0000654	00000000000000000000	00000000000000000000	77777777777777777777	77777777770000000000			
0000660	00007777770000000000	00000000000000000000	37770350377700000000	00000000000000000000		4 C/4	
0000664	00000000000000000000	00000000000000000000	00000000000000130000	00000000000000002747		K	W*
0000670	00000000000000000000	60770000000000000000	00000000003401670170	00044114411400020001		1A A	D6L6L B A
0000674	01010220000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AABP		
0000700	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0000710	00000000000000000000	00000000000000000000	00000000000000000014	37777777777777000000			L4
0000714	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0000730	20252207055116011506	01111450160152550000	47555555555555555555	55555555555555555523	PURGE(NAMFAIL/NA)	*	S
0000734	24012224552520551724	10052255000000000000	47555555555555555555	55555555555555555516	TART UP OTHER	*	N
0000740	05242717221355101723	24552022170722011523	00000000000000000000	07052451162354121702	ETWORK HOST PROGRAMS		GET(INS-JOB
0000744	16235603235412170203	23561626065412170216	26065624260654121702	24260652000000000000	NS,CS-JOB(INS,NVF-JOB(NVF,TVF=JOB(TVF)		
0000750	22172524055116235604	03541116561724542331	17245255000000000000	22172524055103235604	ROUTE(INS,DC-IN,OT-SYOT)		ROUTE(CS,D
0000754	03541116561724542331	17245255000000000000	22172524055116260656	04035411165617245423	C-IN,OT-SYOT)		ROUTE(NVF,DC-IN,OT-S
0000760	31172452000000000000	22172524055124260656	04035411165617245423	31172452000000000000	YOT)		ROUTE(TVF,DC-IN,OT-SYOT)

RA = E,0,10100. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.36. PAGE 3  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0000764	2206145136403333352	00000000000000000000	16112057000000000000	47555555555555555555	RFL(35000)	NIP.	*
0000770	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001000	00000000000000000000	00273500004156062002	00006400004057000001	70000000004057777776	W2 6,FPB	5. A	5.
0001004	00000000004057777776	00000000004057777776	00001000777776000001	00000000777776000000	5. 5. H	A	
0001010	54772622300515364001	12345676543210123456	54772622300515364001	00000000000000000000	= VRXEM35AJ1, =ZHJ1, = VRXEM35A		
0001014	77776777777777777777	00001000000000000000	12345676543210123456	00000000000000000000	H J1, =ZHJ1,		
0001020	20000000000027350064	03253433010102000000	00010100000000000000	00077766010003270620	P W2 CUI0AAB AA G A CWFP		
0001024	00000000000176052616	00000000000000000000	00000000000000000000	00000000000000000000	A EVN		
0001030	55000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001034	00000000000000000000	00005700000006012324	56552005562733345623	37373333562534415503			
0001040	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	. FAST, PE,W01,S4400,U16 C		
0001050	00000000433676051100	00000331155460362400	00002040000000000000	00003600003600000000	83 EI CYM= 3T P5 3 3		
0001054	02342000175000000000	00000237420000002272	77777777777777777777	00007777777000000022	B1P 0/ B47 R		R
0001060	00007777777000000000	00007777700000000000	37770000377700000000	00000000000000000000	4 4		
0001064	00000000000000000000	00000000000000000000	00000000000000130000	23312324051530377777		K SYSTEMX4	
0001070	00000000000000000000	60450000000000000000	00004000000301330142	40044001400100010001	+	5 CA0A75D5A5A A A	
0001074	01010102000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAB		
0001100	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001110	00000000000000000000	00000000000000000000	00000000000000000000	3777777777777777000000			4
0001114	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001130	03253457000000000000	15170405513352000000	03253457000000000000	05301124570000000000	CUI. MODE(0) CUI. EXIT.		
0001134	04152057000000000000	04152051333341373333	52000000000000000000	11065105065417040552	DMP. DMP(006400)		IF(EF=ODE)
0001140	55220524252216511725	24202524520000000000	00000000000000000000	00000000000000000000	RETURN(OUTPUT)		
0001144	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001200	00000000000000000000	00305400001654000001	00002300001655000031	70000000001666001677	X= N= A S N Y N N		
0001204	00000000000166700001	00000000777776000001	00001200001676000000	00000000001675777776	N A A J N N		
0001210	00000000000000000003	00015554464544160235	00004342247467461675	00010704517157143572	C A --+9NB2 87T -N AGD( .L2		
0001214	00015246766646625467	00000000000000000001	00000305475675332546	00000000000000000007	A)- - = A CE+, OU- G		
0001220	20000000000030540023	15220733010107000000	00010100000000000000	00077755010003256132	P X= SMRGOAAG AA G A CU Z		
0001224	00000000000176052617	00000000000000000000	00000000000000000000	00000000000000000000	A EVO		
0001230	55000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001234	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001250	00000000427020456164	00000330032053263400	00001040000000000000	00003600003600000000	7 P+ CXCP1V1 H5 3 3		
0001254	02342000175000000000	00000235520000002102	77777777777777777777	00007777777000000010	B1P 0/ B2) QB		H
0001260	00007777777000000000	00007777700000000000	37770000377700000000	00000000000000000000	4 4		
0001264	00000000000000000000	00000000000000000000	00000000000000130000	23312324051530377777		K SYSTEMX4	
0001270	00000000000000000000	60510000000000000000	00004000000301330142	40054002400200010001	(	5 CA0A75E5B5B A A	
0001274	01010107000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAG		
0001300	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001310	00000000000000000000	00000000000000000000	00000000000000000000	3777777777777777000000			4
0001314	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001330	15220757000000000000	15170405513352000000	15220757000000000000	05301124570000000000	MRG. MODE(0) MRG. EXIT.		
0001334	04152057000000000000	04152051333335363333	52000000000000000000	11065105065417040552	DMP. DMP(002300)		IF(EF=ODE)
0001340	55220524252216511725	24202524520000000000	00000000000000000000	00000000000000000000	RETURN(OUTPUT)		
0001344	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0001400	00000000000000000000	00321700001731000001	00002100001514000002	70000000346114001727	ZD OY A Q ML B 1 L UW		
0001404	00000000237405000001	00000000254275000000	00001400001732365577	00000000001727777774	S E A U7 L 023 UW		
0001410	00700000000000000000	11505230632503220775	77000000000000000000	77777000000000000000	I/IX UCRG		



RA =	E,0,10100.	EXPRESS 11	DSDI - V2.0	79/10/30.	15.19.36.	PAGE	5
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.		NOS 1.4 STUDY DUMP.		

0002054	02342000175000000000	00000240000000002330	77777777777777777777	00007777770000000015	B1P O/	B5	SX		M
0002060	00007777770000000000	00007777000000000000	37770000377700000000	00000000000000000000			4	4	
0002064	00000000000000000000	00000000000000000000	00000000000000130000	23312324051530377777					K SYSTEMX4
0002070	00000000000000000000	60530000000000000000	00004000000301330142	40014117411700010001		\$		5	CAOA75A6U6U A A
0002074	01010110000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAH				
0002100	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000					

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0002110	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000					4
0002114	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000					

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0002130	03152557000000000000	15170405513352000000	03152557000000000000	05301124570000000000	CMU.	MODE(0)	CMU.		EXIT.
0002134	04152057000000000000	04152051333433333333	52000000000000000000	11065105065417040552	DMP.	DMP(010000)			IF(EF=UDE)
0002140	55220524252216511725	24202524520000000000	00000000000000000000	00000000000000000000		RETURN(OUTPUT)			
0002144	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000					

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0002200	00000000000000000000	00427700002506000030	00002700002526000010	70000000002625000020		7	UF	X	W	UV	H	VU	P
0002204	00000000002465000000	00000000002466000000	00002200002525000000	00000000002526000000	T		T		R	UU		UV	
0002210	00000000000000777777	00000000000000000000	00000000000000000000	00000000000000000000									
0002214	00000000000000000000	00000000000000000000	0000000000000002541	00000000000000000000							U6		
0002220	20000000000042770027	22011633010104000000	00010100000000000000	00100015010003466775	P	7	WRANOAAD		AA		H	MA	C-
0002224	00000000000176052612	00000000000000000000	00000000000000000000	00000000000000000000		A	EVJ						
0002230	55000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000									
0002234	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000									

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0002250	00000000454146044477	00000350341317432400	00001120000000000000	00003600003600000000	+6-D9	C/1K08T	IP		3	3			
0002254	02342000175000000000	00000235520000002102	77777777777777777777	00007777770000000013	B1P O/	B2)	QB						K
0002260	00007777770000000000	00007777000000000000	37770000377700000000	00000000000000000000				4	4				
0002264	00000000000000000000	00000000000000000000	00000000000000130000	23312324051530377777							K	SYSTEMX4	
0002270	00000000000000000000	60370000000000000000	00004000000301330142	40014116411600010001		4			5		CAOA75A6N6N A A		
0002274	01010104000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAD								
0002300	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000									

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0002310	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000						4			
0002314	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000									

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0002330	22011657000000000000	15170405513352000000	22011657000000000000	05301124570000000000	RAN.	MODE(0)	RAN.		EXIT.
0002334	04152057000000000000	04152051333335423333	52000000000000000000	11065105065417040552	DMP.	DMP(002700)			IF(EF=UDE)
0002340	55220524252216511725	24202524520000000000	00000000000000000000	00000000000000000000		RETURN(OUTPUT)			
0002344	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000					

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0002400	00011336002252000000	00432600000001000001	00055700000065777765	70070000013044000000	AK3 R)	8V	A	A	E.		G	AX9	
0002404	00000000000114000002	00000000002452000450	0000240000001026072	00000000012706777001		AL	B	T)	D/		AB	AWF	A
0002410	00000000000000000000	00000000000000000000	00000000000000000000	00000016250314052523					BGFP			NUCLEUS	
0002414	01000000000351043403	00000000000000000000	14042120000000012703	00000351000352043403	A	C(DIC			LDQP		AWC	C( C)DIC	
0002420	10010000000043260557	01141531333537030000	00307000000000000000	00100441010000027771	HA	8VE.ALMY024C		X			HD6A	B	
0002424	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000									
0002430	01043533073056445603	57000000000000000000	00000000000000000000	00000000000000000000									
0002434	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000									

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0002450	00000000004707630642	00000002452211750000	05034620000000001502	00003600003600000001	*G F7	B+RI	EC-P		MB	3	3	A	
0002454	02342000175000000000	00000261640000004514	77777077777777777777	00007777770000421016	B1P O/	B	+L					7HN	
0002460	00000001000000000220	60007777002456740502	37370000373700000000	00000000000000000000	A	BP	T,	EB44	44				
0002464	00000000000000000000	05000004111070000000	00000000000000136044	0104353333300002663		E	6IG				K	9AD2000	V
0002470	00000001000000030764	61010000000000000000	00004000000101320132	00000000000000000000	A	CG	A		5		AAZAZ		
0002474	01022207000000000000	00003246777776007777	00001552777713467330	00000000002700002555	ABRG		Z-		M)	K-	X	W	U
0002500	00000000000000000000	40000000000000000000	00000000000000000000	04000000000000000000			5					D	
0002504	04000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	D								

RA -	E,0,10100.	EXPRESS 11	USDI - V2.0	79/10/30. 15.19.36.	PAGE	6
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.		
0002510	00000000000000000000	00000000000000000000	00000000000000000000	000000005677572611400		E L
0002514	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0002530	01043533073056445603	57000000000000000000	00000000000000000000	00000000000000000000	AD20GX,9,C.	
0002534	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0002540	22052425221656230322	57000000000000000000	05162125112205561216	57000000000000000000	RETURN,SCR.	ENQUIRE,JN.
0002544	22171414172524563633	57000000000000000000	07172417560301241411	23245700000000000000	ROLLOUT,30.	GOTO,CATLIST.
0002550	22052605222457030314	55555555555555550000	05301124570303140000	22052605222456010217	REVERT.CCL	EXIT.CCL REVERT,ABO
0002554	22245703031455550000	00000000000000000000	00000000000000000000	00000000000000000000	RT.CCL	
0002560	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0002600	00000000000000000000	00514300002001000020	00002300002021000014	70000000002071340702		
0002604	00000000002014000000	00000000002073126662	00002600002007000000	00000000000157002076	PL	(B PA P S PQ L P LGB A. P
0002610	00000000000000000000	00000000000000000000	00000000000000000000	000000000002067000000		P
0002614	0000000000000000002076	00000000000000000000	00000000000000000000	00000000000000000000	P	PA
0002620	200000000000051430023	06232433010103000000	00010100000000000000	00100015010003537013	P	(B SFSTOAC AA H MA C\$ K
0002624	000000000000176052613	00000000000000000000	00000000000000000000	00000000000000000000	A EVK	
0002630	55000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0002634	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0002650	00000000462452356716	00000355304062704400	00001020000000000000	00003600003600000000	-T12 N C X5 9 HP	3 3
0002654	02342000175000000000	00000235520000002102	77777777777777777777	00007777770000000010	B1P O/	B2) QB H
0002660	00007777770000000000	00007777000000000000	37770000377700000000	00000000000000000000		4 4
0002664	00000000000000000000	00000000000000000000	00000000000000130000	23312324051530377777		K SYSTEMX4
0002670	00000000000000000000	60350000000000000000	00004000000301330142	40054001400100010001	2	5 CAO75E5A5A A A
0002674	01010103000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAC	
0002700	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0002710	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000		4
0002714	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0002730	06232457000000000000	15170405513352000000	06232457000000000000	05301124570000000000	FST.	MODE(0) FST.
0002734	04152057000000000000	04152051333335363333	52000000000000000000	11065105065417040552	DMP.	DMP(002300)
0002740	55220524252216511725	24202524520000000000	00000000000000000000	00000000000000000000	RETURN(OUTPUT)	EXIT. IF(EF=ODE)
0002744	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0003000	00000702001600000000	00516600000001000001	00001600000000000000	70070000000000000000	GB N	( A A N G
0003004	00000000000000000000	00000000000000000000	00003000000701000000	00000000000000000000		X GA
0003010	77777777777777000000	03201520007400000112	00000000007400000000	00000000000000000000		CPMP AJ
0003014	00000000000000000000	00000000000000000000	03201520007400000112	00000000000000000000		CPMP AJ
0003020	10010000000051660016	01124031333437030000	00307000000000000000	00100443010000010044	HA	( NAJ5Y014C X HD8A A 9
0003024	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0003030	11065157161724575106	11140551240120053556	01235252525507175524	17563401020357550000		IF(.NOT.(FILE(TAPE2,AS))) GO TO,1ABC.
0003034	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0003050	00000000001416077473	00000000404707341000	01443320000000000502	00007400003600000001	LNG	5*GLH A90P EB 3 A
0003054	02342000175000000000	00000236100000002140	77777077777777777777	00007777770000141605	B1P O/	B3H Q5 LNE
0003060	00000001000000000040	60007777002456740136	20370600203700000000	00000000000000000000	A	5 T, A3P4F P4
0003064	00000000000000000000	00000000000000000000	00000000000000132746	13150435364242002377		KW-KMD2377 S
0003070	00000000000000000000	64070000000000000000	00004000000501440166	00014213421300010001		EA9A A7K7K A A
0003074	01032431000000000000	00003246777740007777	00001755777714175025	00000000002700000555	ACTY	G Z- 5 O LO/U W E
0003100	00000000000000000000	40400000000000000000	00000000000000000000	00000000000000000000		55
0003104	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0003110	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000		
0003114	00000000000000000000	00000000000000000000	00000000000000000000	000000004154067471400		DM5 *L
0003130	22052425221656240120	05355755000000000000	06111405562401200535	56222454325602245403	RETURN,TAPE2.	FILE,TAPE2,RT=Z,BT=C

RA =	E,0,10100.	EXPRESS 11	DSDI - V2.0	79/10/30.	15.19.36.	PAGE	7
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NDS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.			

0003134	56061454433357550000	2206145641333333357	00000000000000000000	21255755000000000000	,FL=80.	RFL,60000.	QU.
0003140	11065157161724575106	11140551240120053556	01235252525507175524	17563401020357550000	IF(.NOT.(FILE(TAPE2,AS)))	GO TO,1ABC.	
0003144	16170530112457550000	20252207055605201424	01203457000000000000	17160530112457550000	NOEXIT.	PURGE,EPLTAP1.	ONEXIT.
0003150	22052425221656052014	24012034575500000000	04050611160556052014	24012034575500000000	RETURN,EPLTAP1.	DEFINE,EPLTAP1.	
0003154	22052711160456475755	00000000000000000000	03172031562401200535	56052014240120345755	REWIND,*. COPY,TAPE2,EPLTAP1.		
0003160	00000000000000000000	03011414512205201435	52550000000000000000	34010203560317151505	CALL(REPL2)	1ABC,COMME	
0003164	16245755000000000000	05301124575500000000	00000000000000000000	00000000000000000000	NT.	EXIT.	
0003170	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			

0003200	00010664025000000000	00600200000001000637	00000000010215000000	70070000007556015667	AF B/	B	A F4	ABM	G	A,
0003204	00000000010437000050	00000000010222015667	00003200000001000055	00000000010216000033	AD4 /	ABRA,	Z	A	ABN	O
0003210	77777777777777000000	00000000000000000000	23230320007770000000	00000000000000005146			SSCP			(-
0003214	00000000007770000000	00000000007770000000	23230320007770005146	23230320007770005146			SSCP	(-SSCP		(-
0003220	00000000000060020000	00000000000000000000	00000000000000000000	00100633010000036271	B			HFOA	C	
0003224	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000						
0003230	00000000000000000000	37000000000000000000	00000000000000000000	00000000000000000000		4				
0003234	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000						

0003250	00000000003650773700	00000002627261076000	00443100000000000053	00003600003600000000		3/ 4	B	G	9Y	\$ 3 3
0003254	02342000175000000000	00000242640000002614	77777777777777777777	00007777770000000134	B1P O/		B7	VL		A1
0003260	00007777770000000000	00007777000000000000	37770250377700000000	00000000000000000000					4 B/4	
0003264	00000000000000000000	00000000000000000000	77777777777777777777	00000000000000002747						W*
0003270	400000000000000000261	00000000000000000000	05000000001301620170	00000000000000000000	5	B		E	KA A	
0003274	00000000000000000000	77777777777777777777	77777777777777777777	77777777777777777777						
0003300	00000000000000000000	40010000000000000000	00000000000000000000	00000000000000000000			5A			
0003304	00000000000000000000	40000000000000000000	00000000000000000000	00000000000000000000			5			
0003310	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000						4
0003314	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000						

0003330	16235624424242423357	00000000000000000000	03100122070556565616	23570000000000000000	NS,T77770.				CHARGE,,NS.	
0003334	23251151354237425255	5555555555555474747	47474747474747474747	00000000000000000000	SUI(2747)				*****	
0003340	16172205225165700000	16170530112457550000	23052451223654335255	00000000000000000000	NORERUN.	NOEXIT.			SET(R3=0)	
0003344	47555555555555555555	55555555555555555514	17172055251624111455	05162411220500000000	*				LOOP UNTIL ENTIRE	
0003350	47555555555555555555	55555555555555555516	05242717221355240522	15111601240523570000	*				NETWORK TERMINATES.	
0003354	27101114055622365433	56220523240122245755	00000000000000000000	22061451354033333352	WHILE,R3=0,RESTART.				RFL(25000)	
0003360	00000000000000000000	16235755000000000000	04112320140131510506	52555555555555555504	NS.				DISPLAY(EF)	D
0003364	11232014013155052222	17225506140107570000	17060623275134563556	36563752000000000000	ISPLAY ERROR FLAG.				OFFSW(1,2,3,4)	
0003370	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000						

0003400	00003365004156000000	00600200000001000001	00012000000124003650	70070000000122010675	0	6,	B	A A AP	AT 3/ G	ARAF
0003404	00000000003651010675	00000000000112011601	00003400000001005277	00000000000112005330	3(AF			AJANA 1	A )	AJ \$X
0003410	0000000000000000001202	00000000000000000000	00000000000000010675	04110000000002010600	JB				AF DI	BAF
0003414	77777777777777770000	000000000000000000121	02031400000000000000	00000000000000005033				AQRCL		/O
0003420	200200000000060020120	01013231333337030000	00307000000000000000	00100443010000004621	PB			BAPAAZY004C	X	HD8A -Q
0003424	00000000000176052611	00000000000000000000	00000000000000000000	00000000000000000000				A EVI		
0003430	53050411245604202322	57000000000000000000	00000000000000000000	00000000000000000000	\$EDIT,DPSR.					
0003434	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000						

0003450	00000000000221447115	00000000063243505000	00303220000000000056	00007400003600000001		BQ9 M	FZ8//	XZP		3 A
0003454	02342000175000000000	00000245500000003100	77777077777777777777	00007777770000004666	B1P O/		B+/	Y		-
0003460	00000001000000000000	60007777002456740325	20370000203700000000	00000000000000000000	A			T, CUP4	P4	
0003464	00000000000000000000	00000000000277000000	00000000000000132046	03121534374200000147			B		KP-CJM147	A*
0003470	00000000000000000000	61230000000000000000	00004000000101320132	00000000000000000000		S		5	AAZAZ	
0003474	01032730000000000000	00003246777740007777	00001757777714176225	00000000000270000555	ACWX		Z-	5	O. LD U	W E
0003500	00000000000000000000	40010000000000000000	00000000000000000000	00000000000000000000		5A				
0003504	00000000000000000000	40000000000000000000	00000000000000000000	00000000000000000000		5				
0003510	00000000000000000000	00000000000000000000	00000000000000000000	00000003563454444000						

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0003514 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
-----
0003530 53050411245604202322 57000000000000000000 00000000000000000000 00000000000000000000 $EDIT,DPSR.
0003534 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
-----
0003600 00000000000000000000 00632200003426000001 00020000003432000004 70000000005301002733 R 1V A B 1Z D $A W0
0003604 000000000002321000005 000000000002322000022 00003600003525002777 000000000010733000101 SQ E SR R 3 ZU W AGO AA
0003610 77000000000000000000 4655500213650312042 55060107161551342640 67777400040000012003 - Q3/YP7 FAGNM(1V5 D APC
0003614 20600235252270000000 77777777770000000000 00000000000000000007 55060107161551342640 P B2UR G FAGNM(1V5
0003620 200000000000063220200 03243633010106000000 00011000000000000000 00100440010003203544 P RB CT30AAF AH HD5A CP29
0003624 000000000000176052615 00000000000000000000 00000000000000000000 00000000000000000000 A EVH
0003630 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0003634 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
-----
0003650 00000000426271055361 00000317406572540400 00001720000000000000 00003600003600000000 7 ES C05 -D OP 3 3
0003654 02342000175000000000 00000243600000002710 77777777777777777777 00007777777000000024 B1P O/ B8 WH T
0003660 00007777770000000000 00007777000000000000 37770000377700000000 00000000000000000000 4 4
0003664 00000000000000000000 00000000000000000000 00000000000000013000 23312324051530377777 K SYSTEMX4
0003670 00000000000000000000 60470000000000000000 0000400000301330142 40044002400200010001 * 5 CA0A75D5B5B A A
0003674 01010106000000000000 77777777777777777777 77777777777777777777 AAFF
0003700 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
-----
0003710 00000000000000000000 00000000000000000000 00000000000000000000 377777777777777700000 4
0003714 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
-----
0003730 03243657000000000000 15170405513352000000 03243657000000000000 05301124570000000000 CT3. MODE(0) CT3. EXIT.
0003734 04152057000000000000 04152051335333333333 52000000000000000000 11065105065417040552 DMP. DMP(020000) IF(EF=ODE)
0003740 55220524252216511725 24202524520000000000 00000000000000000000 00000000000000000000 RETURN(OUTPUT)
0003744 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
-----
0004000 00024476005335000000 00652200000001000001 00000000022174777755 70070000000002021763 B9 $2 R A A BQ G BBO
0004004 00000000022131025003 00000000020041026615 00004000000001776677 00000000026463000030 BQYB/C B 6B M 5 A B X
0004010 00000000000000000000 00000000000000000000 17170631463146403615 20000000000000000012 DOFY-Y-53MP J
0004014 20000000000000000000 00000000000000000004 05160420000000000000 20000000000000000001 P DENDP P A
0004020 000000000000065220000 00000000000000000000 00000000000000000000 0010061600000040000 R HFN D
0004024 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0004030 00000000000000000000 55445742443525162423 57000000250503205655 5555555553757403337 9.792UNTS. UECP, 4.504
0004034 23050323570000002505 00000000000000000000 00000000000000000000 00000000000000000000 SECS. UE
0004040 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
-----
0004050 00000000000565433134 00000000206165454000 00313000000000000005 00007400003600000002 E 8Y1 P +5 YX E 3 B
0004054 02342000175000000000 000002342000000001750 77777077777777777777 000077777770000047732 B1P O/ B1P O/ D Z
0004060 00000014200000000014 60007777002456740117 20370000203700000000 00000000000000000000 LP L T, ADP4 P4
0004064 00000000000000000000 00002636700000000000 77777777777777777777 2202063700000210233 B RBF4 Q80
0004070 00000000000000000000 00000000000000000000 00004000000501410141 00000000000000000000 5 EA6A6
0004074 00000000000000000000 00003246777740007777 00001755777714177600 00000000002700001555 Z- 5 0 LO W. M
0004100 00000000000000000000 40000000000000000000 00000000000000000000 00000000000000000000 5 A
0004104 00000000000000000000 01000000000000000000 00000000000000000000 00000000000000000000
0004110 00000000000000000000 00000000000000000000 00000000000000000000 00000055646710372000
0004114 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 H4P
-----
0004130 14172205165624424242 57550000000000000000 25230522512202063752 00000000000000000000 LOREN,T777. USER(RBF4)
0004134 03100122070551423440 43564213160244334333 52550000000000000000 06241657000000000000 CHARGE(7158,7KNB9080) FTN.
0004140 14071757000000000000 16541523231211245616 01570000000000000000 11060556571617245706 LGO. N=MSSJIT,NA. IFE,.NOT.F
0004144 11140551040131345601 23525625230522161735 57000000000000000000 07052456040131345025 ILE(DAY1,AS),USERNO2. GET,DAY1/U
0004150 16541523061411025616 01570000000000000000 05160411065625230522 16173557000000000000 N=MSFLIB,NA. ENDIF,USERNO2.
0004154 05160411065625230522 16173457000000000000 11060556571617245706 11140551040131345601 ENDIF,USERNO1. IFE,.NOT.FILE(DAY1,A
```

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RA = E,0,10100. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.37. PAGE 9
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0004160 23525616172406160457 00000000000000000000 2205260522457550401 31345516172455061725 S),NOTFND. REVERT. DAY1 NOT FOU
0004164 1604570000000000000000 05160411065616172406 1604570000000000000000 30050411245604013134 ND. ENDIF,NOTFND. XEDIT,DAY1
0004170 03172031561104141707 00000000000000000000 00000000000000000000 00000000000000000000 COPY,IDLOG
0004174 0000000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0004200 0000330605000000000000 00713000000001000221 00024400002727000013 70070000002476000016 OFE X A BQ B9 WW K G T N
0004204 000000000003151000013 00000000002734000010 00004200000010000001 00000000002730000013 Y( K W1 H 7 A A WX K
0004210 7777777777777777000000 00000000000000000000 23230320007770000000 0000000000000000331 SSCP CY
0004214 0000000000077700000000 00000000007770000000 23230320007770000331 23230320007770000331 SSCP CYSSCP CY
0004220 20000000000071300244 22020655555555000000 00727767000000000000 00000775010000020227 P XB9RBF G A BBW
0004224 000000000000176052571 00000000000000000000 00000000000000000000 00000000000000000000 A EU
0004230 25031523565555553433 37435740424113251623 57000000010050263014 54157776340314043404 UCMS, 1048.576KUNS. A /VXL=M ICLD10
0004234 37040712300335031012 00000000000000000000 22552324172201070555 51031552575555000000 4DGJXC2CHJ R STORAGE (CM).
0004240 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

-----
0004250 00000000000000000000 00000034062613652000 672704000000000000005 00000000000000000000 IFVK P WD E
0004254 00000000000000000000 00000000000000000000 7777777777777777777 77777777770000000000
0004260 00007777777000000000 00000000000000000000 37770500377700000000 00000000000000000000 4 E 4
0004264 00000000000044000000 00000000000000000000 00000000000000130000 00000000000000002747 9 B $ K W*
0004270 000000770000000000260 62530000000000000000 00004000000401420162 00024137413700010001 5 DA7A B6464 A A
0004274 01010226000000000000 7777777777777777777 7777777777777777777 7777777777777777777 AABV
0004300 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

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0004310 00000000000000000000 00000000000000000000 00000000000000000000 3777777777777777000000 4
0004314 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

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0004330 23251156354237425755 00000000000000000000 22061451403333333352 00000000000000000000 SUI,2747. RFL(50000)
0004334 27221124050651220206 22171414525555555522 02065506145522171414 17252455061114055755 WRITE(RBFROLL) RBF FL ROLLOUT FILE.
0004340 00000000000000000000 22020635203357550000 02050711165617060620 22170356170606202217 22170356170606202217 RBF2P0. BEGIN,OFFPROC,OFFPRD
0004344 03562202065700000000 17252457000000000000 03140501225700000000 05301124575500000000 C,RBF. OUT. CLEAR. EXIT.
0004350 04152057000000000000 04150451343333333333 52550000000000000000 02050711165622020620 DMP. DMD(100000) BEGIN,RBFP
0004354 22170356220206202217 03570000000000000000 02050711165617060620 22170356170606202217 ROC,RBFPROC. BEGIN,OFFPROC,OFFPRD
0004360 03562202065700000000 05301124575500000000 00000000000000000000 00000000000000000000 C,RBF. EXIT.
0004364 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

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0004400 00001470002334000000 00737400002334000001 00002400000410000000 70070000002303000012 L S1 S1 A T DH G SC J
0004404 00000000000006000004 00000000000027000010 00004400000010000055 00000000000101000055 F D W H 9 A AA
0004410 00000000000000000000 40000000000000000000 00000000000000000000 00000000000000000000 A5
0004414 00000000000000000000 00000000000000000000 22031400000000000000 00000000000000000000 RCL
0004420 20010000000073740024 15010716052455000000 00767773000000000000 00000000000000000000 PA TMAGNET
0004424 00000000000176052577 00000000000000000000 00000000000000000000 00000000000000000000 A EU
0004430 55000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0004434 00000000000000000000 00002334000014747374 20475504112320140131 00000100264050006456 S1 L P* DISPLAY A V5/ ,
0004440 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

-----
0004450 00000000000000000000 00000074445103112000 00000400000000000000 00000000000000000000 9(CIP D
0004454 00000000000000000000 00000000000000000000 7777777777777777777 77777777770000000000
0004460 00007777777000000000 00000000000000000000 05000000050000000000 00000000000000000000 E E
0004464 00000000000000000000 00000000000000000000 00000000000000130000 00000000000000000000 K
0004470 00000000000000000000 60610000000000000000 00004000000101310134 00000000000000000000 5 AAYA1
0004474 01010123000000000000 7777777777777777777 7777777777777777777 7777777777777777777 AAAS
0004500 00100000270077000101 00000000000000000000 00000000000000000000 00000000000000000000 H W AA
0004504 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0004510 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000 4
0004514 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

-----
0004530 15010716052457550000 15010716052434570000 05301124575500000000 15010716052434570000 MAGNET. MAGNET1. EXIT. MAGNET1.
0004534 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
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0004600	00000000000000000000	00742000000000000000	00002300000000000000	70070000000000000000	P	S	G
0004604	00000000000000000000	00000000000000000000	00004600000000000000	00004600000000000000		-	-
0004610	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0004620	000300000000074200023	02012403101117000000	00767774000000000000	00000000000000000000	C	P SBATCHIO	
0004624	00000000000000000000	00000000000000000000	34111763010400010002	00000000000000000000			110 AD A B
0004630	55355502250606052223	55010324112605570000	01001756140034453457	1655333565533335700	2 BUFFERS ACTIVE.		A O,L 1+1.N 00, 00.
0004634	0000101404553335700	00001227340000120000	11475504112320140131	57000000304412010413	HLD 00. JW1 J	I* DISPLAY.	X9JADK
0004640	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0004650	00000000000000000000	00000000000000000000	75114200000000000000	00000000000000000000			17
0004654	00000000000000000000	00000000000000000000	77777777777777777777	77777777770000000000			
0004660	00007777770000000000	00000000000000000000	37770000377700000000	00000000000000000000			4 4
0004664	00000000000000000000	00000000000000000000	00000000000000013000	00000000000000000000			K
0004670	00000000000000000000	60570000000000000000	00004000000000000000	00000000000000000000			5
0004674	01010122000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AAAR		
0004700	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0004710	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777777777			4
0004714	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0004730	00000000000000470000	00030000000000000000	00000000000000700000	00000000000000000000	* C		
0004734	01132401032321610000	00000004000000000004	00000000000000720000	00000004000000000004	AKTACSQ	D D	D D
0004740	00000000000000730000	00000000000000000000	00000000000000740000	00010000000000000000			A
0004744	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0005000	00001177031600000000	007443000000001000001	00033400003570003571	70070000031600003571	I CN 8	A A C1 2 2 G CN 2	
0005004	00000000003420000004	00000000000704003411	00005000000001024145	00000000000106000244	1P D	GD II / AB6+	AF B9
0005010	77777777777777777600	00000000000000000000	00000000377700000000	0000000077777777767		4	
0005014	77777777000000000000	00000000000000000035	22031400000000000000	00000000000000003411		2RCL	11
0005020	20010000000074430334	23241555555555000000	00607761000000000000	00001006010000017774	PA	8C1STM	HFA A
0005024	00000000000176052574	00000000000000000000	00000000000000000000	00000000000000000000	A EU		
0005030	55171614111605554055	03222455405520221116	24553355220501045533	55000000000000000000	ONLINE 5 CRT 5 PRINT 0 READ 0		
0005034	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0005050	00000000000000000000	00000106605470430000	23115000000000000015	00000000000000000000		AF = 8 SI/	H
0005054	00000000000000000000	00000000000000000000	77777777777777777777	77777777770000000000			
0005060	00007777770000000000	00000000000000000000	37770060377700000000	00000000000000000000		4 4	
0005064	00000000000000000000	00000000000000000000	0000000000000000130000	000000000000000002747			K
0005070	40000177000000000511	61470000000000000000	00000000001301530170	00014153415300010001	5 A	EI *	KASA A6161 A A
0005074	01010232000000000000	77777777777777777777	77777777777777777777	77777777777777777777	AABZ		
0005100	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0005110	00000000000000000000	00000000000000000000	00000000000000000000	37777777777777000000			4
0005114	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			
0005130	47550422172057550000	16172205222516570000	47552205212505232456	17205703100503135505	* DRDP.	NORERUN. * REQUEST,OP.CHECK E	
0005134	21553740000000000000	22052425221651172052	00000000000000000000	23251156354237425755	Q 45	RETURN(OP)	SUI,2747.
0005140	00000000000000000000	01242401031056232405	15061114575500000000	16170530112457550000		ATTACH,STEMFIL.	NOEXIT.
0005144	34564755000000000000	23052451050654335255	00000000000000000000	22052425221656232405	1,*	SET(EF=0)	RETURN,STE
0005150	15172524575500000000	23240515561614543437	56215755000000000000	22061456414033333357	MDUT.	STEM,NL=14,Q.	RFL,65000.
0005154	00000000000000000000	47550516202256363357	00000000000000000000	11065151232734570521		* ENPR,30.	IF((SW1.EQ
0005160	57335257011604575123	27355705215734525220	17232405155114540152	00000000000000000000		.0).AND.(SW2.EQ.1))POSTEM(L=A)	
0005164	11065151232734570521	57345257011604575123	27355705215733525220	17232405155114540252		IF((SW1.EQ.1).AND.(SW2.EQ.0))POSTEM(L=B)	
0005170	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000			

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RA = E,0,10100. EXPRESS 11 DSDI -- V2.0 79/10/30. 15.19.37. PAGE 11
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0005200 00044232011014000000 00000000041754000001 007777700005561000073 70060000010740000044 D7ZAH L DD= A F AG5 9
0005204 00000000010742011010 57000000005561044232 00005200041752010760 00000000005561000070 AG7AHH. D7Z J DOJAG
0005210 77777777777700000000 00000000000000000000 00020143002400072043 00000000000000000001 BA8 T GP8 A
0005214 00000000000000000000 00000000000000000645 00000000000000000001 00000000000000000000 F+ A
0005220 00020000000000000777 23312324051555000000 01007777000000000001 00000000000000000000 B SYSTEM A A
0005224 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0005230 55031005031320171116 24550317152014052405 57000000552331232405 00005522050317260522 CHECKPOINT COMPLETE. SYSTE RECOVER
0005234 05045700000001005020 04230455270111245515 24225700000001006274 02005744301005720100 ED. A /PDSO WAIT MTR. A B .9XHE A
0005240 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

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0005250 00000000000000000000 00000111410252454000 00000000000000000000 00000000000000000000 A16B)+5
0005254 00000000000000000000 00000000000000000000 777777777777777777 00000000000000000000
0005260 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

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0005274 00000000000000000000 777777777777777777 00014136413600016075 000000000004000020007 A6363 A 5 B G
0005300 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

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0005310 00000000000000000000 00000000000000000000 00000000000000000000 377777777777777777 4
0005314 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

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0005340 34550320363737341455 55160401550425152055 01160114312311235546 55012210550314172305 1 CP3441L NDA DUMP ANALYSIS - ARH CLOSE
0005344 04552310172000000000 55030320551001142455 34340000000000000000 00000000000212000000 D SHOP CCP HALT 11 BJ
0005350 0000000000000000000174 00000000000000000000 000000000000000000212 042515200000000000061 A BJDUMP
0005354 000000000000000001005 000000000000000002473 031117200000000000212 00000000000000000000 A E T CIOP BJ
0005360 00410000000057750074 04112333020427000000 00757761200100000000 00031024000000010000 6 . DISOBDW PA CHT A
0005364 00000000000000000000 00000000000000000000 04112357000000000010 00000000000000000000 DIS. H
0005370 01232311071656413556 04251520560454200556 14025413255700000000 00000000000000000000 ASSIGN,62,DUMP,D=PE,LB=KU.
0005374 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0005400 15242221000000000000 00464200000176052621 00000000000000000000 00000000000000041752 MTRQ -7 A EVQ DO1
0005404 000000000000000041753 000000000000000041757 000000000000000041761 00000000000000041755 DO$ DO$ DO DO
0005410 04230425000000000000 10531707002400757777 34041425001000440136 00000000000000000000 DSDU H$OG T 1DLU H 9A3
0005414 00000000111021071500 55334257343657333357 55424450334350344257 00400000000000000000 IHOGH 07.13.00. 79/08/17. 5
0005420 03201554007400000112 00330000000200003060 00000001411406450001 00000042004600150005 CPM= AJ O B X A6LF+ A 7 - M E
0005424 00000000000000000000 17563401020357550000 00000000000000000000 5555555553357333335 O,1ABC. 0.002
0005430 03111716000000000112 00300000000000000000 00050002414300240001 00000043006100240024 CION AJ X E B68 T A 8 T T
0005434 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333335 0.002
0005440 000000000000000005630 00000000000000000000 34152422125300000001 00000016025400000027 ,X IMTRJ$ A NB= W
0005444 00000000000000000000 56165433575500000000 00000000000000000000 5555555553357333335 ,N=0. 0.002
0005450 000000000000000005610 00000000000000000000 34152422517100040001 00000043000700420026 ,H IMTR( D A 8 G 7 V
0005454 00000000000000000000 00000000000000000000 5555555553357334135 5555555553357333335 0.062 0.002
0005460 000000000000000005440 00000000000000000000 34152422517100040001 00000024027500170004 =5 IMTR( D A TB O D
0005464 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000
0005470 23241564001600003411 00460000000000000000 00070002411411650000 00000043004600230021 STM N 11 - G B6LI 8 - S Q
0005474 00000000000000000000 00000000000000000000 5555555553357343440 5555555553357333336 0.115 0.003
0005500 00000000000000000000 00000000000000000000 03243633010106000100 00100076002200000000 CT30AAF A H R
0005504 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333334 0.001
0005510 21012023000100001165 00330042005300000035 00070001412702760011 00000042005300310035 QAPS A I O 7 $ 2 G A6WB I 7 $ Y 2
0005514 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333335 0.002
0005520 000000000000000005460 00000000000000000000 34152422717300040001 00000006023600010012 = IMTR D A FB3 A J
0005524 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333334 0.001
0005530 34152422327200000001 00000106471203541073 34152422327200000001 00000043001600000033 IMTRZ A AF+JC=H IMTRZ A 8 N O
0005534 00000000000000000000 00000000000000000000 00000000000000000000 5555555553357333335 0.002
0005540 21012023000500140151 00610701004100061011 21012023000100000145 00100076002200000000 QAPS E LA( GA 6 FHIQAPS A A+ H R
0005544 00000000000000000000 00000000000000000000 00000000000000000000 00000000111021202735 IHQPW2
0005550 20112003000000000134 000000001412701615350 00050001412701620000 00000042005300270021 PIPC A1 A6WA $/ E A6WA 7 $ W Q
0005554 00000000000000000000 00000000000000000000 00000000000000000000 51072001055701000672 (GPAE,A F
0005560 03111702000000000135 00610100003503011073 03111716000000000121 00100076002200000000 CI0B A2 A 2CAH CI0N AQ H R
```

RA =	E,0,10100.	EXPRESS 11	DSOI - V2.0	79/10/30.	15.19.37.	PAGE	12
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.			
0005564	00000000000000000000	00000000000000000000	55555555553357333340	55555555553357333335		0.005	0.002
0005570	34030423000100000000	00000000000000000000	21012023000100000145	00000043005300240023	1CDS A	QAPS A A+	B % T S
0005574	00000000000000000000	00000000000000000000	00000000000000000000	55555555553357333335			0.002
0005600	1404215200000012703	00330100000200010024	00240003612303420005	00020044042700120021	LDQJ	AWC OA	B A T T C SC7 E B 9DW J Q
0005604	00000000000000000000	00000000000000000000	00000000000000000000	00000000111021202736			IHQPM3
0005610	000000000000000005500	00000000000000000000	34152422125300000001	00000006007000020002		1MTRJ\$	A F B B
0005614	00000000000000000000	00000000000000000000	00000000000000000000	55555555553357333334			0.001
0005620	34150103000205011552	00447350750000010000	00050001420600010000	00000042010300000000	1MAC BEAMJ 9 /	A E A7F A	7AC
0005624	00000000000000000000	00000000000000000000	55555555553357333340	55555555553357333335		0.005	0.002
0005630	000000000000000005450	00000000000000000000	00200052502400000210	00000024026200110003	-/	P J/T BH	TB I C
0005634	00000000000000000000	00000000000000000000	00000000000000000000	55555555553357333334			0.001
0005640	00040350033304000000	00014001420004110000	00035750004101000000	00000000000000000000	DC/COD	A5A7 DI	C./ 6A
0005644	00036050004101000000	00054112411200010000	00036150003401000000	00044122412201520000	C / 6A	E6J6J A	C / 1A D6R6RAJ
0005650	00036250002301000000	00000000000000000000	00036350001301000000	00000000000000000000	C / SA		C / KA
0005654	00036450001301000000	00000000000000000000	00036550001301000000	00000000000000000000	C / KA		C / KA
0005660	00036650001301000000	00000000000000000000	00036750001301000000	00000000000000000000	C / KA		C / KA
0005664	00037050005201000000	00024152415200210000	00037150001501000000	00000000000000000000	C / JA	B6J6J Q	C / MA
0005670	00037250005501000000	00000000000000000000	00037350000001000000	00000000000000000000	C / A		C / A
0005674	00037450001201000000	00000000000000000000	00037550001301000000	00000000000000000000	C / JA		C / KA
0005700	00037650000001000000	00000000000000000000	00037750003701000000	00000000000000000000	C / A		C / 4A
0005704	00040050002001000000	00000000000000000000	00040150003501000000	00045231523100010000	D / PA	DA/ 2A	D1Y1Y A
0005710	00040250006201000000	00000000000000000000	00040750021304000000	00014002421102610000	DB/ A	DG/BKD	A5B7I8
0005714	00041350004401000000	00014003417306210000	77777777777777777777	77777777777777777777	DK/ 9A	A5C6 FQ	
0005720	00000000000022041003	62000705000004211005	62000705000004211074	00000000000000000000	RDHC	GE DQHE	GE DQH
0005724	42002021000004111163	42002120000004111250	42002120000004131335	42002422000004111422	7 PQ	DII 7 QP	DIJ/7 QP DKK27 TR DILR
0005730	00000010000004237000	46002423000004121507	42000507000004211575	42000705000004211664	H DS - TS	DJMG7 EG	DQM 7 GE DQN
0005734	42002021000004121753	46002423000004112041	46002423000004112126	46002423000004112213	7 PQ	DJ05- TS	DIP6- TS DIQV- TS DIRK
0005740	46002224000004112300	46002422000004112365	46002322000004122452	46002322000004112540	- RT	DIS - TR	DIS - SR DJTJ- SR DIU5
0005744	46002224000004122625	00000000000000000000	00000000000000000000	46002322000004122713	- RT	DJYU	- SR DJWK
0005750	46002120000004113001	00000000000000000000	46002423000004113066	46002120000004123153	- QP	DIXA	- TS DIX - QP DJY\$
0005754	47000507000004123241	47000705000004123327	46002422000004113415	46002322000004113502	* EG	DJZ6* GE	DJOW- TR DIIM- SR DI2B
0005760	20000000003064247002	20000000010064240001	20000002010024242000	0000000400063247000	P	X T BP	A T AP BA TTP D T
0005764	00030001000216207001	00000006000256207001	00240004000023057000	0000001200003224000	C A BNP A	F B,P A T D	SE J CR5
0005770	00003213000016240400	00003213000015240401	00003213000015240402	00003213000015240403	ZK	NTD	ZK MTDA ZK MTDB ZK MTDC
0005774	00003213000015240404	00003213000055240405	00003213000055240406	00003213000055240407	ZK	MTDD	ZK TDE ZK TDF ZK TDG
0006000	00003331000016244220	00003331000016244221	00003331000016244222	00003331000016244223	OY	NT7P	OY NT7Q OY NT7R OY NT7S
0006004	00003331000016244204	00003331000016244205	00003331000015244206	00003331000015244207	OY	NT7D	OY NT7E OY NT7F OY NT7G
0006010	00230012000003207000	00230012000014203000	00000012010614202400	00000012000014245600	S J	CP	S J LPX JAFLPT J LT,
0006014	02000012000054236100	20000000010224240000	20000000000024050000	20000000000016050000	B J	-S P	ABTT P TE P NE
0006020	23312324051500011600	00014004400400010005	26011411042532001300	00135677000000000005	SYSTEM AN	A5D5D A	EVALIDUZ K K,
0006024	23011426413500001300	00134014000000000005	22233004413500001300	00134016000000000005	SALV62 K	K5L	ERSXD62 K K5N
0006030	22233026413500001300	00134015000000000005	01120321032015020240	00055231000022127600	RSXV62 K	K5M	EAJCQCPMBB5 E1Y RJ
0006034	11162025240000010013	00054001400100020005	11162025240000010011	00014116411600020005	INPUT	A K	E5A5A B EINPUT A I A6N6N B E
0006040	11162025240000010006	00014115411500020005	11162025240000010007	00024001400100020005	INPUT	A F	A6M6M B EINPUT A G B5A5A B E
0006044	11162025240000010004	00044001400100020005	11162025240000010017	00044002400200020005	INPUT	A D	D5A5A B EINPUT A D D5B5B B E
0006050	11162025240000010005	00054002400200020005	11162025240000010010	00014117411700020005	INPUT	A E	E5B5B B EINPUT A H A6Q6Q B E
0006054	03242201010125010400	770241500000000030100	34111723010112000023	00000000000000000001	CTRAAAUAD	B6/	CA 1105AAJ S
0006060	34152422010113000022	00000000000000000001	22141517042300011600	00024162416203750707	1MTRAAK R		ARLMODS AN B6 6 C GG
0006064	04112333010126000400	77055026000206002262	22100620140000011600	00044275520001320707	DISOAAV D	E/V BF R	RHFPL AN D7 J AZGG
0006070	20221706111402001300	00135674000000000005	01141331031417010400	77014170000100043240	PROFILB K	K,	EALKYCLOAD A6 A DZ5
0006074	04112333013116020240	00014136000027477600	34231103010217000003	00000000000000000001	DISOAYNB85	A63 W*	1SICABO C
0006100	11162025244700010012	00000000000000000005	24221702000000001502	00054062473500310305	INPUT* A J		ETROB MB E5 *2 YCE
0006104	22021001033012020240	00024151002102340200	34231102010215000002	00000000000000000001	RBHACXJB85	B61 QB1B	1SIBABM B
0006110	17252420252400000202	00024133413300020307	24010603142310001502	00024115411500030005	OUTPUT BB	B6060 BCGTAFCLSH	MB B6M6M C E
0006114	01070131031603010400	77014204000100043241	01122311333437020240	00044251000023117600	AGAYCNCAD	A7D A	DZ6AJSI0148B5 D7I SI
0006120	23032237000000001516	00024143414300240302	11162025244700010016	00000000000000000005	SCR4	MN	B6868 TCBINPUT* A N
0006124	11010603142310001501	00024132413200020005	01120411032017020240	00054067000022157600	IAFCLSH MA	B6Z6Z B	EADJICPQB85 E5 RM

RA = E,0,10100. EXPRESS 11 USDI - V2.0 79/10/30. 15.19.37. PAGE 13  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0006130	01151301020322020240	00014133000043177600	04202322000000001516	00014161416101330005	AMKABCRB85	A60	80	DPSR	MN	A6 6	AO E
0006134	01212031032313020240	00054070000040777600	01122311333536020240	00014134000023117600	AQPYCSK8B5	E5	5	AJS10238B5	A61	SI	
0006140	01212031032313020240	00024120000040777600	11162025240000001516	00750000000000000401	AQPYCSK8B5	B6P	5	INPUT	MN		DA
0006144	32323232320407001514	00014215421500020505	34231124010231000024	00000000000000000001	ZZZZZDG ML	A7M7M	BEE1SITABY	T			A
0006150	22020731033011020240	00024153002102330200	32323232321116001514	00750000000000000001	RBGYCXIB85	B61	QB0B	ZZZZZIN ML			A
0006154	32323232321725001514	00750000000000000001	03063342000000001524	00014155415500010305	ZZZZZOU ML		ACF07	MT	A6 6	ACE	
0006160	11162025240000001512	007500000000000000401	17252420252400001512	007500000000000000401	INPUT MJ		DAQUTPUT	MJ		DA	
0006164	32323232320335001512	71055222522200020307	07222533340100001512	00024140414000010305	ZZZZZC2 MJ	E1RJR	BCGGRU01A	MJ	B6565	ACE	
0006170	04013100000000001512	00024163416300010305	01151301020321020240	00014143000043177600	DAY MJ	B6 6	ACEAMKABCRB85		A68	80	
0006174	32340515172524001524	00054145527100530303	23241500000000001524	00054101410100030005	STEMOUT MT	E6+)	%%CSTM	MT	E6A6A	C E	
0006200	07222533340000001512	00045240524000110305	07222534000000001512	00024211421100100305	GRU01 MJ	D1515	ICEGRU1	MJ	B7171	HCE	
0006204	01020101033013010400	77054661000100043240	14000000000000001512	00024142414201760707	ABAACKKAD	E-	A DZ5L	MJ	B6767A	GG	
0006210	16011514170313001203	00135127512700010005	14071700000000001512	00055221522100010505	NAMLOCK JC	K1W1W	A ELGO	MJ	E1Q1Q	AEE	
0006214	01151301020321020240	00024123000043177600	01122311333536020240	00044303000023117600	AMKABCRB85	B65	80	AJS10238B5	D8C	SI	
0006220	03063343000000001524	00024125412500010305	16011503142310001503	00024134413400040005	CF08	MT	B6U6U	ACENAMCLSH	MC	B6161	D E
0006224	34231101010213000001	00000000000000000001	03063344000000001524	00044240424001510305	1SIAABK A		ACF09	MT	D7575A	ACE	
0006230	23240515061114011224	00134773477311710011	03063334000000001524	00024122412200010305	STEMFILAJT	K+ *	I ICF01	MT	B6R6R	ACE	
0006234	16233333010221000140	00024160000001570001	03233333010222000140	00014206000002357500	NS00ABQ A5	B6	A.	AC500ABR	A5	A7F	B2
0006240	16260633010223000140	00024144000001110001	12172522330000301202	00064143414302330303	NVFOABS A5	B69	AI	AJOURO	XJB	F6868BOCC	
0006244	24260633010224000140	00014137000002500001	011324013032721000263	77044223423500670001	TVFOABT A5	A64	B/	AAKTACWQ	B	D7572	A
0006250	22151200000000001502	00044007400700020005	34231121010225000021	00000000000000000001	RMJ	MB	D5G5G	B	ELSIQABU	Q	
0006254	22020622171414001521	00044170416600360305	22020603142310001521	00054071407100020005	RBFROLL MQ	D6 6	3CERBFCLSH	MQ	E5 5	B E	
0006260	22151217223400301202	00125704570400310307	32323232323442001502	00014141414100200307	RMJ0R1 XJB	J.D.D	YCGZZZZ17	MB	A6666	PCG	
0006264	13242322171414001502	00014151415100660305	22153400000000001202	00125702570302770505	KTSROLL MB	A6161	CERMI	XJB	J.B.CB	EE	
0006270	22154100000000301202	00125705570500030405	15012000000000001502	00054100410000210307	RM6 XJB	J.E.E	COEMAP	MB	E6 6	QCG	
0006274	03063335000000001524	00044236423600010305	22153500000000301202	00125711571100630405	CF02	MT	D7373	ACERM2	XJB	J.I.I	DE
0006300	22153600000000301202	00125712571200010005	03063336000000001524	00054105410500010305	RM3 XJB	J.J.J	A ECF03	MT	E6E6E	ACE	
0006304	03063337000000001524	00014154415400010305	22153700000000001202	00125713571300010005	CF04	MT	A6+6+	ACERM4	XJB	J.K.K	A E
0006310	22154000000000301202	00125715571500010005	1531100123100001502	00044161416100020015	RM5 XJB	J.M.M	A EMYHASH	MB	D6 6	B M	
0006314	22154200000000301202	00125707570700010005	24012313141102311202	00064142414200440005	RM7 XJB	J.G.G	A ETASKLIBYJB	F6767	9 E		
0006320	05261200000000001502	00014142414200020005	17032401231314311202	0014655665600010005	EVJ	MB	A6767	B	EOCTASKLYJB	L ,	A E
0006324	22311200000000001502	00054103410300020005	06000000000000001512	00024176417600020315	RYJ	MB	E6C6C	B EF	MJ	B6 6	BCM
0006330	03063340000000001524	00024124412400010305	05262401231314311202	00146563656300010005	CF05	MT	B6T6T	ACEEVTASKLYJB	L		A E
0006334	03063341000000001524	00044237423700010305	03063434000000001524	00054110411000010305	CF06	MT	D7474	ACECF11	MT	E6H6H	ACE
0006340	22312401231314311202	00146561656100010005	03063435000000001524	00014156415601510305	RYTASKLYJB	L	A ECF12	MT	A6,6,A	ICE	
0006344	03063437000000001524	00054114411401450305	22050317262200001502	00014150415000020307	CF14	MT	E6L6LA+CECECOVR	MB	A6/6/	BCG	
0006350	03063433000000001524	00054106410600460305	32323232320416001521	00054136521501250303	CF10	MT	E6F6F	-CEZZZZZDN	MQ	E631MAUCC	
0006354	20221703061114001512	00014241424100210415	03063436000000001524	00024131413101450305	PROCFIL MJ	A7676	QDMCF13	MT	B6Y6YA+CE		
0006360	03000000000000001512	00055252525200020305	24012005360000001212	00075702536500420301	C	MJ	E1111	BCETAPE3	JJ	G.81	7CA
0006364	01012511333434010240	00055213000000000410	07222514110200001512	00055204520400130411	AAUI011AB5	E1K	DHGRULIB	MJ	E1D1D	KUI	
0006370	01110501333340010240	00014172000000000247	16052700000000001512	00014174417400010505	AIEA005A85	A6	B*NEW	MJ	A6 6	AEE	
0006374	30050400000000001512	00055260526000010005	12170207300000001512	00024214421440030315	XED	MJ	E1	J A EJOBGX	MJ	B7L7L	CCM
0006400	01163031021011010400	77014162000100043240	01043533073000011212	00076137613701560004	ANXYBHIAD	A6	A DZ5AD20GX	AJJ	G 4	4A, D	
0006404	26011411042532001400	00000000000000000000	11162025244700010014	00000000000000000005	VALIDUZ L		AINPUT*	A L		E	
0006410	05201426052200011214	00135647564700010005	05201420350000001514	00045202520200020005	EPLVER AJL	K,*,*	A EEPLP2	ML	D1B1B	B E	
0006414	01150231333433000263	77055160520100630001	17252420252400001516	00750000000000000005	AMBYU10 B	E1	IA	AOUTPUT	MN		E
0006420	32323232320507001514	00024156415600770707	00000000000000000000	00000000000000000000	ZZZZZEG ML	B6,6,	GG				
0006424	20221706111402001400	00000000000000000001	23032234000000001516	00055127512700320301	PROFILB L		ASCR1	MN	E1W1W	ZCA	
0006430	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000							
0006434	22152401231314311202	00125517565710250005	00000000000000000000	00000000000000000000	RMTASKLYJB	J O, .HU	E				
0006440	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000							

0006474	01020101032031010400	77055161000100043240	00000000000000000000	00000000000000000000	ABAACPYAD	E1	A DZ5				
0006500	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000							
0010014	00000000000000000000	00000000000000000000	20023300000000000000	00000000000000000000							
0010020	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000							

PBO

RA = E,0,10100. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.38. PAGE 14  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0010024 00000000000000000000 00000000000000000000 00000000000000000000 77777777777777777777  
0010030 0000000000000000000000 0000000000000000000000 0000000000000000000000 0000000000000000000000

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0010050 32220000064540263006 00000000001500000100 0000000000000000000000 41234000412400010000 ZR F+5VXF M A 6S5 6T A  
0010054 23312324413500010000 000000000000000177777 10001200041100001200 0000000000000000000000 SYST62 A 0 H J DI J  
0010060 0000000000000000000000 0000000000000000000000 00014000412777770000 0001474500000000000006 A5 6W A++ F  
0010064 40014002400341200000 00040000413500000001 000000000000000000042 0000000000000000000000 5A5B5C6P D 62 A 7  
0010070 41214212415741737417 40054006400740100017 40114012401340140017 40154016401740200017 6Q7J6.6 05E5F5G5H 05I5J5K5L 05M5N5O5P 0  
0010074 40214022402340240017 40254026402740300017 40314032403340340017 40354036403740400017 5Q5R5S5T 05U5V5W5X 05Y5Z5051 052535455 0

RA =	E,35700,76000.	EXPRESS 11	OSDI - V2.0	79/10/30.	15.19.38.	PAGE	15
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.			
0035700	24002000401000010000	24001010400400010000	02000100700000010000	00300400020000000000	T P 5H A T HH5D A B A	A	XD B
0035704	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000			
0035710	34002400401000010000	34001400400600010000	02000100760000010000	00300400020000000000	1 T 5H A 1 L 5F A B A	A	XD B
0035714	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000			
0035720	40003770700600010000	40043740700000010000	02000100700000010000	00300040001000000000	5 4 F A 5D45 A B A	A	X 5 H
0035724	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000			
0035730	67746700740000010000	67744000740000010000	60000100770000010000	00310400006000000000	A 5 A A A	A	YD
0035734	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000			
0035740	73747360750000010000	73747350750000010000	05000100770000010000	00730400020000000000	A / A E A A	A	D B
0035744	77777777777777777777	00000000000000000000	00000000000000000000	00000000000000000000			
0035750	55334257353357353757	0301141511101060314	23105200000000000000	55334257353357353757	07.20.24.CALL (IAFCLSH)		07.20.24.
0035754	22052425221656110106	05305755000000000000	55334257353357353757	17162327513452550000	RETURN,IAFEX.		07.20.24.ONSW(1)
0035760	55334257353357353757	17162327513652550000	55334257353357353757	17162327514052550000	07.20.24.ONSW(3)		07.20.24.ONSW(5)
0035764	55334257353357353757	17162327514152550000	55334257353357353757	27101114055624222505	07.20.24.ONSW(6)		07.20.24.WHILE,TRUE
0035770	56141717205700000000	55334257353357354057	11010605305700000000	55334257353357354157	,LOOP.	07.20.25.IAFEX.	07.20.26.
0035774	16172355344643123336	24502235025755550000	55334257353357364157	55270111241116075506	NOS 1-8J03T/R2B.		07.20.36. WAITING F
0036000	17225516052427172213	57000000000000000000	55334257353457333357	16011555552605225534	OR NETWORK.		07.21.00.NAM VER 1
0036004	57354655223502550000	55334257353457333357	55160524271722135503	17161605032405045700	.2- R2B	07.21.00. NETWORK CONNECTED.	
0036010	00000000000000000000	55334257344057363657	07052456233123050457	00000000000000000000		07.15.33.GET,SYSED.	
0036014	55334257344057363757	03011414562331230504	57550000000000000000	55334257344057363757	07.15.34.CALL,SYSED.		07.15.34.
0036020	01242401031051233123	02111652000000000000	55334257344057363757	01242401031051230523	ATTACH(SYSEBIN)		07.15.34.ATTACH(SES
0036024	02111632525500000000	55334257344057363757	22052425221651140717	56111652000000000000	BINZ)	07.15.34.RETURN(IGLO,IN)	
0036030	55334257344057363757	23251151353741520000	55334257344057363757	07052451132217163534	07.15.34.SUI(246)		07.15.34.GET(KRON21
0036034	56132217163534045616	17235255000000000000	55334257344057364057	23312305041124511154	,KRON21D,NOS)		07.15.35.SYSEEDIT(1-
0036040	23312305045603520000	55334257344057374457	23312324051555050411	24550317152014052405	SYSED,C)	07.15.49.SYSTEM EDIT COMPLETE	
0036044	55465503100116070555	34575555555555555555	00000000000000000000	55334257344057403357	- CHANGE 1.		07.15.50.
0036050	16011555552605225534	57354655223502550000	55334257353457344257	55160524171655031715	NAM VER 1.2- R2B	07.21.17. NETON COM	
0036054	20140524055700000000	55334257353457344257	26052223111716553457	35570000000000000000	PLETE.	07.21.17.VERSION 1.2.	
0036060	55334357403657364057	25031523565555553433	37435740424113251623	57000000000000000000	08.53.35.UCMS,	1048.576KUNS.	
0036064	55343357354257363657	25031523565555553433	37435740424113251623	57000000000000000000	10.27.33.UCMS,	1048.576KUNS.	
0036070	55343457404057353357	55141102220122315525	20040124050455465522	15240123131456552315	11.55.20. LIBRARY UPDATED - RMTASKL, SM		
0036074	13354242335700000000	55343557344257333557	25031523565555553433	37435740424113251623	K2770.	12.17.02.UCMS,	1048.576KUNS
0036100	57000000000000000000	55343757333357333357	25031523565555553433	37435740424113251623	.	14.00.08.UCMS,	1048.576KUNS
0036104	57000000000000000000	55344057374257354257	25031523565555553433	37435740424113251623	.	15.47.27.UCMS,	1048.576KUNS
0036110	57000000000000000000	55334257353357373757	17162327513752550000	55334257353357373757	.	07.20.44.ONSW(4)	07.20.44.
0036114	22061456343533333333	57550000000000000000	55334257353357373757	24010616011534570000	RFL,120000.		07.20.44.TAFNAM1.
0036120	55334257353457333657	55233120225516172455	06172516045655012455	33414242373757550000	07.21.03. SYPR NOT FOUND, AT 067744.		
0036124	55334257353457333657	55040211045516172455	06172516045655012455	33414242354257550000	07.21.03. DBID NOT FOUND, AT 067727.		
0036130	55334257353457333757	55353433405555552717	22042355220521251122	05045506172255011120	07.21.04. 2105 WORDS REQUIRED FOR AIP		
0036134	55141701041116075755	00000000000000000000	55334257353457333757	55011120552325030305	LOADING.	07.21.04. AIP SUCC	
0036140	23230625141431551417	01040504570000000000	55334257353457333757	55240402110455161724	SSFULLY LOADED.	07.21.04. TDBID NOT	
0036144	55061725160456555501	24553342333334365755	00000000000000000000	55334257353457344257	FOUND, AT 070013.		07.21.17.
0036150	55344157353557373757	14111605005514353555	55555556051656353556	01345616170405365555	16.22.44.LINE L22	,EN,22,A1,NODE3	
0036154	00000000000000000000	55344157353557404457	14111605005514354355	5555556010356354356	16.22.59.LINE L28	,AC,28,	
0036160	01345616170405365555	00000000000000000000	55344157353657333657	06221715551617040536	A1,NODE3	16.23.03.FROM NODE3	
0036164	55555022052355575757	15011116240516011603	05550114012215550000	55344157353657333657	/RES ...MAINTENANCE ALARM	16.23.03.	
0036170	55555555201722245535	37000000000000000000	55344157353657343657	14111605005514353755	PORT 24	16.23.13.LINE L24	
0036174	55555556041656353756	01345616170405365555	00000000000000000000	55344157353657344257	,ON,24,A1,NODE3	16.23.17.	
0036200	14111605005514353755	55555556051656353756	01345616170405365555	00000000000000000000	LINE L24	,EN,24,A1,NODE3	
0036204	00000000000000000000	55344157344357344457	14111605005514353355	55555556041656353356	16.18.19.LINE L20	,ON,20,	
0036210	01345616170405365555	00000000000000000000	55344157344357353457	14111605005514353355	A1,NODE3	16.18.21.LINE L20	
0036214	55555556051656353356	01345616170405365555	00000000000000000000	55344157344357353557	,EN,20,A1,NODE3	16.18.22.	
0036220	14111605005514354255	55555556010356354256	01345616170405365555	00000000000000000000	LINE L27	,AC,27,A1,NODE3	
0036224	55344157344457343557	14111605005514354155	55555556051656354156	01345616170405365555	16.19.12.LINE L26	,EN,26,A1,NODE3	
0036230	00000000000000000000	55344157344457373557	14111605005514353355	55555556010356353356	16.19.42.LINE L20	,AC,20,	
0036234	01345616170405365555	00000000000000000000	55344157353457344057	14111605005514354155	A1,NODE3	16.21.15.LINE L26	
0036240	55555556010356354156	01345616170405365555	00000000000000000000	55344157353557373457	,AC,26,A1,NODE3	16.22.41.	

RA -	E,35700,76000.	EXPRESS 11	OSDI - V2.0	79/10/30. 15.19.38.	PAGE 16
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R28.	NOS 1.4 STUDY DUMP.	
0036244	14111605005514353555	55555556041656353556	01345616170405365555	00000000000000000000	LINE L22 ,DN,22,A1,MODE3
0036250	55334257344057403457	03253457000000000000	55334257344057403457	15170405513352000000	07.15.51.CU1. 07.15.51.MODE(0)
0036254	55334257344057403457	03253457000000000000	55334257344057403557	03253455552315155526	07.15.51.CU1. 07.15.52.CU1 SHM V
0036260	37573346335700000000	55334257344157373557	55000000000000000000	55343757353557354357	4.0-0. 07.16.42. 14.22.28.
0036264	55000000000000000000	55343757353557364057	55000000000000000000	55343757353557364457	14.22.35. 14.22.39.
0036270	07175700000000000000	55343757353557373557	55000000000000000000	77777777777777777777	GO. 14.22.42.
0036274	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036350	55334257344057403457	15220757000000000000	55334257344057403457	15170405513352000000	07.15.51.MRG. 07.15.51.MODE(0)
0036354	55334257344057403457	15220757000000000000	55334257344057403457	15220755552315155526	07.15.51.MRG. 07.15.51.MRG SHM V
0036360	37573346335700000000	55334257344157740357	55000000000000000000	77777777777777777777	4.0-0. 07.16.52.
0036364	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036450	55334257344057403457	01143057000000000000	55334257344057403457	15170405513352000000	07.15.51.ALX. 07.15.51.MODE(0)
0036454	55334257344057403457	01143057000000000000	55334257344057403557	01143055552315155526	07.15.51.ALX. 07.15.52.ALX SHM V
0036460	37573346335700000000	55334257344157404257	55000000000000000000	77777777777777777777	4.0-0. 07.16.57.
0036464	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036550	55334257344057403457	03232557000000000000	55334257344057403457	15170405513352000000	07.15.51.CSU. 07.15.51.MODE(0)
0036554	55334257344057403557	03232557000000000000	55334257344057403557	03232555552315155526	07.15.52.CSU. 07.15.52.CSU SHM V
0036560	37573346335700000000	55334257344157364457	55000000000000000000	77777777777777777777	4.0-0. 07.16.39.
0036564	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036650	55334257344057403457	03152557000000000000	55334257344057403457	15170405513352000000	07.15.51.CMU. 07.15.51.MODE(0)
0036654	55334257344057403457	03152557000000000000	55334257344057403457	03152555552315155526	07.15.51.CMU. 07.15.51.CMU SHM V
0036660	37573346335700000000	55334257344157403357	55000000000000000000	77777777777777777777	4.0-0. 07.16.50.
0036664	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0036750	55334257344057403457	22011657000000000000	55334257344057403457	15170405513352000000	07.15.51.RAN. 07.15.51.MODE(0)
0036754	55334257344057403557	22011657000000000000	55334257344057403557	22011655552315155526	07.15.52.RAN. 07.15.52.RAN SHM V
0036760	37573346335700000000	55334257344157404157	55000000000000000000	77777777777777777777	4.0-0. 07.16.56.
0036764	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0037050	55344157353457364457	22052425221656230322	57000000000000000000	55344157353457364457	16.21.39.RETURN,SCR. 16.21.39.
0037054	05162125112205561216	57000000000000000000	55344157353457364457	22171414172524563633	ENQUIRE,JN. 16.21.39.ROLLOUT,30
0037060	57000000000000000000	55344157353557334457	07172417560301241411	23245700000000000000	16.22.09.GDTC,CATLIST.
0037064	55344157353557334457	03012414112324561417	54065614542303225700	00000000000000000000	16.22.09.CATLIST,LO=F,L=SCR.
0037070	55344157353557343357	55030124141123245503	17152014052405570000	55344157353557343357	16.22.10. CATLIST COMPLETE. 16.22.10.
0037074	30050411245623032256	16105601235777145001	04353355503477740214	50010435330730507730	XEDIT,SCR,NH,AS. L/AD20 /1 BL/AD20GX/ X
0037100	00000000000000000000	55344157353557343357	21000000000000000000	55344157353557343457	16.22.10.Q 16.22.11.
0037104	22052425221656230322	57000000000000000000	55344157353557343457	05162125112205561216	RETURN,SCR. 16.22.11.ENQUIRE,JN
0037110	57000000000000000000	55344157353557343457	22171414172524563633	57000000000000000000	16.22.11.ROLLOUT,30.
0037114	55344157353557363457	53012424010310560104	35330730570000000000	55344157353557364157	16.22.31.ATTACH,AD20GX. 16.22.36.
0037120	01043533073056445603	57000000000000000000	57000000000000000000	55344157353457334157	AD20GX,9,C. 16.21.06.
0037124	22171414172524563633	57000000000000000000	55344157353457364157	07172417560301241411	ROLLOUT,30. 16.21.36.GDTC,CATLI
0037130	23245700000000000000	55344157353457364157	03012414112324561417	54065614542303225700	ST. 16.21.36.CATLIST,LO=F,L=SCR.
0037134	00000000000000000000	55344157353457364257	55030124141123245503	17152014052405570000	16.21.37. CATLIST COMPLETE.
0037140	55344157353457364257	30050411245623032256	16105601235777145001	04353355503477740214	16.21.37.XEDIT,SCR,NH,AS. L/AD20 /1 BL
0037144	50010435330730507730	00000000000000000000	55344157353457364257	21000000000000000000	/AD20GX/ X 16.21.37.Q
0037150	55334257344057403457	06232457000000000000	55334257344057403457	15170405513352000000	07.15.51.FST. 07.15.51.MODE(0)
0037154	55334257344057403457	06232457000000000000	55334257344057403457	06232455552315155526	07.15.51.FST. 07.15.51.FST SHM V
0037160	37573346335700000000	55334257344157374057	55000000000000000000	55334257344157374257	4.0-0. 07.16.45. 07.16.47.
0037164	55000000000000000000	77777777777777777777	77777777777777777777	77777777777777777777	
0037170	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0037250	55344057404057333557	53031001220705564234	40435642361637443333	33570000000000000000	15.55.02.\$CHARGE,7158,73N49000.
0037254	55344057404057343557	53012424010310560520	14260522570000000000	55344057404057344157	15.55.12.\$ATTACH,EPLVER. 15.55.16.

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0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R28.	NOS 1.4 STUDY DUMP.	
0037260	53030114145605201420	35570000000000000000	55344057404057344357	22052425221656240120	%CALL,EPLP2. 15.55.18.RETURN,TAP
0037264	05355755000000000000	55344057404057344357	06111405562401200535	56222454325602245403	E2. 15.55.18.FILE,TAPE2,RT=2,BI-C
0037270	5606145443357550000	55344057404057344357	2206145641333333357	00000000000000000000	,FL=80. 15.55.18.RFL,60000.
0037274	55344057404057344357	21255755000000000000	55344057404057344457	24244240565501232311	15.55.18.QU. 15.55.19.TT75, ASSI
0037300	07160504552417553232	32323211165700000000	55344057404057344457	24244240565501232311	GNED TO ZZZZZIN. 15.55.19.TT75, ASSI
0037304	07160504552417553232	32323217255700000000	55344057404057363457	55221555060124011455	GNED TO ZZZZZOU. 15.55.31. RM FATAL
0037310	33333341551716551406	1655323232322213655	00000000000000000000	55344057404157334057	0006 ON LFN ZZZZZQ3 15.56.05.
0037314	55221555052222172255	33334155333455151722	05552411150523551716	55323232323221360000	RM ERROR 006 01 MORE TIMES ON ZZZZZQ3
0037320	55344157353657363357	11065157161724575106	11140551240120053556	01235252525507175524	16.23.30.IF(.NOT.(FILE(TAPE2,AS))) GO T
0037324	17563401020357550000	00000000000000000000	00000000000000000000	00000000000000000000	O,IABC.
0037330	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
0037350	15011116240516011603	05550114012215550000	55344157353657333557	55555555201722245535	MAINTENANCE ALARM 16.23.02. PORT 2
0037354	37000000000000000000	55344057343357403357	06221715551617040536	55555022052355575757	4 15.10.50.FROM NODE3 /RES ...
0037360	15011116240516011603	05550114012215550000	55344057343357403357	55555555201722245533	MAINTENANCE ALARM 15.10.50. PORT 0
0037364	36000000000000000000	55344057343757333757	06221715551617040536	55555022052355575757	3 15.14.04.FROM NODE3 /RES ...
0037370	15011116240516011603	05550114012215550000	55344057343757333757	55555555201722245534	MAINTENANCE ALARM 15.14.04. PORT 1
0037374	04000000000000000000	55344057344157333557	06221715551617040536	55555022052355575757	D 15.16.02.FROM NODE3 /RES ...
0037400	15011116240516011603	05550114012215550000	55344057344157333557	55555555201722245535	MAINTENANCE ALARM 15.16.02. PORT 2
0037404	35000000000000000000	55344057374457403757	06221715551617040536	55555022052355575757	2 15.49.54.FROM NODE3 /RES ...
0037410	15011116240516011603	05550114012215550000	55344057374457403757	55555555201722245534	MAINTENANCE ALARM 15.49.54. PORT 1
0037414	04000000000000000000	55344057403457343657	06221715551617040536	55555022052355575757	D 15.51.13.FROM NODE3 /RES ...
0037420	15011116240516011603	05550114012215550000	55344057403457343657	55555555201722245534	MAINTENANCE ALARM 15.51.13. PORT 1
0037424	04000000000000000000	55344057403757353757	06221715551617040536	55555022052355575757	D 15.54.24.FROM NODE3 /RES ...
0037430	15011116240516011603	05550114012215550000	55344057403757353757	55555555201722245534	MAINTENANCE ALARM 15.54.24. PORT 1
0037434	04000000000000000000	55344157334357334057	06221715551617040536	55555022052355575757	D 16.08.05.FROM NODE3 /RES ...
0037440	15011116240516011603	05550114012215550000	55344157334357334057	55555555201722245534	MAINTENANCE ALARM 16.08.05. PORT 1
0037444	04000000000000000000	55344157353657333557	06221715551617040536	55555022052355575757	D 16.23.02.FROM NODE3 /RES ...
0037450	55344157344357403657	53031001220705563435	34405640371336353641	57000000000000000000	16.18.53.%CHARGE,1215,54K3236.
0037454	55344157344357404457	53070524560420232257	00000000000000000000	55344157344457333657	16.18.59.%GET,DPSR. 16.19.03.
0037460	530504124560420232	57000000000000000000	00000000000000000000	00000000000000000000	%EDIT,DPSR.
0037464	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	
0037550	55334257344057403457	03243657000000000000	55334257344057403457	15170405513352000000	07.15.51.CT3. 07.15.51.MODE(0)
0037554	55334257344057403457	03243657000000000000	55334257344057403457	03243655552315155526	07.15.51.CT3. 07.15.51.CT3 SHM V
0037560	37573346335700000000	55334257344157373457	55000000000000000000	77777777777777777777	4.0-0. 07.16.41.
0037564	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777	
0037650	55344157353657344257	14172205165624424242	57550000000000000000	55344157353657344257	16.23.17.LOREN,T777. 16.23.17.
0037654	25030322565514344024	34555556555555555555	33573642401303042357	00000000000000000000	UCCR, L15T1, 0.375KCDs.
0037660	55344157353657344257	25230522512202063752	00000000000000000000	55344157353657344257	16.23.17.USER(RBF4) 16.23.17.
0037664	03100122070551423440	43564213160244334333	52550000000000000000	55344157353657344257	CHARGE(7158,7KNB9080) 16.23.17.
0037670	06241657000000000000	55344157353657344257	555555553657373637	55032055230503171604	FTN. 16.23.27. 3.434 CP SECOND
0037674	23550317152011140124	11171655241115050000	55344157353657354257	14071757000000000000	S COMPILATION TIME 16.23.27.LGO.
0037700	55344157353657354457	55555555232417205555	00000000000000000000	55344157353657354457	16.23.29. STOP 16.23.29.
0037704	5555555555557364344	55032055230503171604	23550530050325241117	16552411150555550000	.389 CP SECONDS EXECUTION TIME
0037710	55344157353657354457	25050104565555555555	55335733333513251623	57000000000000000000	16.23.29.UEAD, 0.002KUNS.
0037714	55344157353657354457	25052006565555555555	55335733334013251623	57000000000000000000	16.23.29.UEPF, 0.005KUNS.
0037720	55344157353657354457	25051523565555555555	55415737444113251623	57000000000000000000	16.23.29.UEMS, 6.496KUNS.
0037724	55344157353657354457	25050320565555555555	55375740333723050323	57000000000000000000	16.23.29.UERP, 4.504SECS.
0037730	55344157353657354457	01052322565555555555	55445742443525162423	57000000000000000000	16.23.29.AESR, 9.792UNTS.
0037734	20252207055604171605	14171350251654152306	14110256160157000000	55344157344457343557	PURGE,DONELOK/UN=MSFLIB,NA. 16.19.12.
0037740	55041716051417135516	17245506172516045655	55012455333333343534	57550000000000000000	DONELOK NOT FOUND, AT 000121.
0037744	55344157344457343557	22052605222457554704	17160547550317152014	05240557000000000000	16.19.12.REVERT. *DONE* COMPLETE.
0037750	55334257353357404157	03011414512202060314	23105200000000000000	55334257353357404257	07.20.56.CALL(RBFCLSH) 07.20.57.
0037754	23251156354237425755	00000000000000000000	55334257353357404257	22061451403333333352	SUI,2747. 07.20.57.RFL(50000)
0037760	00000000000000000000	55334257353357404257	27221124050651220206	22171414525555555522	07.20.57.WRITEF(RBFROLL) R

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0000000	CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.		NOS 1-8J03T/R2B.	NOS 1.4 STUDY QUMP.		
0037764	02065506145522171414	17252455061114055755	00000000000000000000	55334257353357404257	BF FL ROLLOUT FILE.	07.20.57.
0037770	22020635203357550000	55334257353357404257	23240122245522020655	55260522553457354655	RBF2P0. 07.20.57.START RBF	VER 1.2-
0037774	55374443000000000000	55334257353457333357	16011555552605225534	57344655553744430000	498 07.21.00.NAM	VER 1.1- 498
0040000	55334257353457333357	16052417165501030305	20240504000000000000	55343557344357344157	07.21.00.NETON ACCEPTED	12.18.16.
0040004	25031523565555553433	37435740424113251623	57000000000000000000	77777777777777777777	UCMS, 1048.576KUNS.	
0040010	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777		
0040050	55334257344057403457	15010716052457550000	55334257344057403557	15244040560334365655	07.15.51.MAGNET.	07.15.52.MT55,C13,
0040054	24252216050455170606	57000000000000000000	55334257344057403557	15244041560334365655	TURNU OFF.	07.15.52.MT56,C13,
0040060	24252216050455170606	57000000000000000000	55334257344057403557	15244042560334365655	TURNU OFF.	07.15.52.MT57,C13,
0040064	24252216050455170606	57000000000000000000	55334257353557333557	55000000000000000000	TURNU OFF.	08.22.02.
0040070	77777777777777777777	77777777777777777777	77777777777777777777	77777777777777777777		
0040150	22052055423656553335	57000000000000000000	55343757344457354157	02132055423556553340	REP 73, 02.	14.19.26.BKP 72, 05
0040154	57000000000000000000	55343757353557344357	22052055423756553335	57000000000000000000	.	14.22.18.REP 74, 02.
0040160	55343757353757364457	22052055423656553334	57000000000000000000	5534405733357353357	14.24.39.REP 73, 01.	15.00.20.
0040164	22221655423756553333	57000000000000000000	55344057333457344257	22221655423756553333	RRN 74, 00.	15.08.17.RRN 74, 00
0040170	57000000000000000000	55344057343457333657	22052055423756553334	57000000000000000000	.	15.11.03.REP 74, 01.
0040174	55344057363457403457	22052055423656553335	57000000000000000000	55344057363757334457	15.31.51.REP 73, 02.	15.34.09.
0040200	22052055423456553334	57000000000000000000	55344157343457404157	22052055423656553340	REP 71, 01.	16.11.56.REP 73, 05
0040204	57000000000000000000	57000000000000000000	55343357334457353757	22052055423656553334	.	10.09.24.REP 73, 01
0040210	57000000000000000000	55343357344157373357	22052055423656553334	57000000000000000000	.	10.16.40.REP 73, 01.
0040214	55343457363357353757	22052055423656553335	57000000000000000000	55343457373457364257	11.30.24.REP 73, 02.	11.41.37.
0040220	22052055423456553335	57000000000000000000	55343557363457403557	02132055423756553340	REP 71, 02.	12.31.52.BKP 74, 05
0040224	57000000000000000000	55343557403357373457	22052055423656553442	57000000000000000000	.	12.50.41.REP 73, 17.
0040230	55343657334257334157	05160455374256553334	57000000000000000000	55343657343757403457	13.07.06.END 47, 01.	13.14.51.
0040234	22221655423656553333	57000000000000000000	55343657344057403657	22052055423656553435	RRN 73, 00.	13.15.53.REP 73, 12
0040240	57000000000000000000	55343657403357373457	22052055423456553334	57000000000000000000	.	13.52.41.REP 71, 01.
0040244	55343757343357344357	02132055423556553333	57000000			

RA =	E,35700,76000.	EXPRESS 11	DSDI - V2.0	79/10/30. 15.19.38.	PAGE 19
0000000	CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.		NOS 1-8J03T/R28.	NOS 1.4 STUDY DUMP.	

0040434	01172031333441245755	03172031561602224104	22015632343536374041	57550000000000000000	AOPY016T. COPY,NBR6DRA,Z123456.
0040440	55344157353657343657	01172031333441245755	55051711550516031725	16240522050457000000	16.23.13.AOPY016T. EOI ENCOUNTERED.
0040444	55344157353657343657	01172031333441245755	22052711160456160222	41042201563234353637	16.23.13.AOPY016T. REWIND,NBR6DRA,Z1234
0040450	40415755000000000000	55344157353657343657	01172031333441245755	22052425221656160222	56. 16.23.13.AOPY016T. RETURN,NBR
0040454	41042201575500000000	55344157353657343657	01172031333441245755	03172031563234353637	6DRA. 16.23.13.AOPY016T. COPY,Z1234
0040460	40415616022241042201	57550000000000000000	55344157353657343757	01172031333441245755	56,NBR6DRA. 16.23.14.AOPY016T.
0040464	55051711550516031725	16240522050457000000	55344157353657343757	01172031333441245755	EOI ENCOUNTERED. 16.23.14.AOPY016T.
0040470	22052425221656323435	36374041575500000000	55344157353657343757	01172031333441245755	RETURN,Z123456. 16.23.14.AOPY016T.
0040474	16172405511725242025	24525007052404550317	15201405240557550000	55344157353657344157	NOTE(OUTPUT)/GETD COMPLETE. 16.23.16.
0040500	01142531333442245755	16170530112457000000	55344157353657344157	01142531333442245755	ALUY017T. NOEXIT. 16.23.16.ALUY017T.
0040504	01242401031056305407	42220521501554275700	00000000000000000000	55344157353657344157	ATTACH,X=G7REQ/M-W. 16.23.16.
0040510	01142531333442245755	11060556061114055130	56571617245701235256	24225700000000000000	ALUY017T. IFE,FILE(X,.NOT.AS),TR.
0040514	55344157353657344157	01142531333442245755	05160411065624225700	00000000000000000000	16.23.16.ALUY017T. ENDIF,TR.
0040520	55344157353657344157	01142531333442245755	17160530112457000000	55344157353657344157	16.23.16.ALUY017T. ONEXIT. 16.23.16.
0040524	22021001033012055755	14172205165624424242	57550000000000000000	55344157353657344157	RBHACXJE. LOREN,T777. 16.23.16.
0040530	01142531333442245755	03172031560742220521	56305626570000000000	55344157353657344257	ALUY017T. COPY,G7REQ,X,V. 16.23.17.
0040534	22020731033011055755	14172205165624424242	57550000000000000000	55344157353657344257	RBGYCXIE. LOREN,T777. 16.23.17.
0040540	22021001033012055755	25230522512202064052	00000000000000000000	55344157353657344257	RBHACXJE. USER(RBF5) 16.23.17.
0040544	22020731033011055755	25230522512202063752	00000000000000000000	55344157353657344257	RBGYCXIE. USER(RBF4) 16.23.17.
0040550	22021001033012055755	03100122070551423440	43564213160244334333	52550000000000000000	RBHACXJE. CHARGE(7158,7KNB9080)
0040554	55344157353657344257	01142531333442245755	55051711550516031725	16240522050457000000	16.23.17.ALUY017T. EOI ENCOUNTERED.
0040560	55344157353657344257	22020731033011055755	03100122070551423440	43564213160244334333	16.23.17.RBGYCXIE. CHARGE(7158,7KNB9080
0040564	52550000000000000000	55344157353657344257	01142531333442245755	55260522110631550717	) 16.23.17.ALUY017T. VERIFY GO
0040570	17045700000000000000	55344157353657344257	22021001033012055755	06241657000000000000	OD. 16.23.17.RBHACXJE. FTN.
0040574	55344157353657344257	22020731033011055755	06241657000000000000	55344157353657344357	16.23.17.RBGYCXIE. FTN. 16.23.18.
0040600	01142531333442245755	22052425221656305607	42220521563307422205	21570000000000000000	ALUY017T. RETURN,X,G7REQ,OG7REQ.
0040604	55344157353657344357	01142531333442245755	20252207055633074222	05215635074222052150	16.23.18.ALUY017T. PURGE,OG7REQ,2G7REQ/
0040610	16015700000000000000	55344157353657344357	01142531333442245755	22052605222457550504	NA. 16.23.18.ALUY017T. REVERT. ED
0040614	11241116075503171520	1405240557555074222	05215522052722112424	00000000000000000000	ITING COMPLETE. G7REQ REWRIIT
0040620	55344157353657344357	01142531333442245755	05165700000000000000	55344157353657344457	16.23.18.ALUY017T. EN. 16.23.19.
0040624	01172031333441245755	53050411245616022241	04220156012357000000	55344157353657354257	AOPY016T. \$EDIT,NBR6DRA,AS. 16.23.27.
0040630	22021001033012055755	555555555365733541	55032055230503171604	23550317152011140124	RBHACXJE. 3.426 CP SECONDS COMPILAT
0040634	11171655241115050000	55344157353657354257	22021001033012055755	14071757000000000000	ION TIME 16.23.27.RBHACXJE. LGO.
0040640	55344157353657354257	22020731033011055755	5555555553657373637	55032055230503171604	16.23.27.RBGYCXIE. 3.434 CP SECONDO
0040644	23550317152011140124	11171655241115050000	55344157353657354257	22020731033011055755	S COMPILATION TIME 16.23.27.RBGYCXIE.
0040650	14071757000000000000	55344157353657354457	22021001033012055755	5555555523241205555	LGO. 16.23.29.RBHACXJE. STOP
0040654	00000000000000000000	55344157353657354457	22021001033012055755	5555555555557364434	16.23.29.RBHACXJE. .391
0040660	55032055230503171604	23550530050325241117	16552411150555500000	55344157353657354457	CP SECONDS EXECUTION TIME 16.23.29.
0040664	22020731033011055755	55555555232417205555	00000000000000000000	55344157353657354457	RBGYCXIE. STOP 16.23.29.
0040670	22020731033011055755	5555555555557364344	55032055230503171604	23550530050325241117	RBGYCXIE. .389 CP SECONDS EXECUTIO
0040674	16552411150555500000	55344157353657363357	01124031333437245755	11065157161724575106	N TIME 16.23.30.AJ5Y014T. IF(.NOT.(F
0040700	11140551240120053556	01235252525507175524	17563401020357550000	04112320172305560317	ILE(TAPE2,AS))) GO TO,1ABC. DISPOSE,CO
0040704	20315422025700000000	55344157353557403357	01012511333434245755	53300504112456141123	PY-PR. 16.22.50.AAUI011T. \$EDIT,LIS
0040710	24570000000000000000	55344157353557404357	01172031333441245755	53030114145623012605	T. 16.22.58.AOPY016T. \$CALL,SAVE
0040714	04510616541602224104	22015700000000000000	55344157353557404357	01172031333441245755	O(FN=NBR6DRA. 16.22.58.AOPY016T.
0040720	22052425221656323435	36374041575500000000	55344157353557404357	01172031333441245755	RETURN,Z123456. 16.22.58.AOPY016T.
0040724	22052711160456160222	41042201575500000000	55344157353557404357	01172031333441245755	REWIND,NBR6DRA. 16.22.58.AOPY016T.
0040730	03172031561602224104	22015632343536374041	57550000000000000000	55344157353557404457	COPY,NBR6DRA,Z123456. 16.22.59.
0040734	01172031333441245755	55051711550516031725	16240522050457000000	55344157353557404457	AOPY016T. EOI ENCOUNTERED. 16.22.59.
0040740	01172031333441245755	07172417563432343536	37405755000000000000	55344157353557404457	AOPY016T. GOTD,Z12345. 16.22.59.
0040744	01172031333441245755	34323435363740562205	24252216561602224104	22015755000000000000	AOPY016T. Z12345,RETURN,NBR6DRA.
0040750	11140256552331232405	15305655570000000000	55344157353657344257	16260633010223235755	ILB, SYSTEMX, . 16.23.17.NVFOABSS.
0040754	01020120565503345655	01043533333356551617	23031423105655143543	24345755000000000000	ABAP, C1, AD2000, NOSCLSH, L281T.
0040760	55344157353657344257	16260633010223235755	01020120565503355655	11010657000000000000	16.23.17.NVFOABSS. ABAP, C2, IAF.
0040764	55344157353657344257	22021001033012055755	01020316565542344043	56554213160244334333	16.23.17.RBHACXJE. ABCN, 7158, 7KNB9080
0040770	57000000000000000000	55344157353657344257	22020731033011055755	01020316565542344043	. 16.23.17.RBGYCXIE. ABCN, 7158
0040774	56554213160244334333	57000000000000000000	55344157353657344257	01141531333340245755	, 7KNB9080. 16.23.17.ALMY005T.

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0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.		
0041000	01022516565501043533	33335655161723031423	10570000000000000000	55344157353657344357	ABUN, AD2000, NOSCLSH.	16.23.18.
0041004	01142531333442245755	23202007565533074222	05215655565557000000	55344157353657344357	ALUYO17T. SPPG, OG7REQ, , .	16.23.18.
0041010	01142531333442245755	23202007565535074222	05215655565557000000	55344157353657353657	ALUYO17T. SPPG, 2G7REQ, , .	16.23.23.
0041014	01141531333537245755	25030317565555555555	55375733444113031023	57550000000000000000	ALMYO24T. UCCO, 4.096KCHS.	
0041020	55344157353657353757	01124031333437245755	23200124565505201423	24012456555655570000	16.23.24.AJ5Y014T. SPAT, EPLSTAT, , .	
0041024	55344157353657353757	01012511333434245755	25030317565555555555	55375733444113031023	16.23.24.AAUI011T. UCCO, 4.096KCHS	
0041030	57550000000000000000	55344157353657354357	01110231333440245755	25030317565555555555	16.23.28.AIBY015T. UCCO,	
0041034	55345735364113031023	57550000000000000000	55344157353657354357	01110231333440245755	1.236KCHS. 16.23.28.AIBY015T.	
0041040	25030311565555555555	55335734434113031023	57550000000000000000	55344157353657354357	UCCI, 0.186KCHS. 16.23.28.	
0041044	01110231333440245755	25230104565555555555	55335733333413251623	57550000000000000000	AIBY015T. USAD, 0.001KUNS.	
0041050	55344157353657354357	01110231333440245755	25232006565555555555	55335733344313251623	16.23.28.AIBY015T. USPF, 0.018KUNS	
0041054	57550000000000000000	55344157353657354357	01110231333440245755	55344157353657354357	25231523565555555555	16.23.28.AIBY015T. USMS,
0041060	55335744443313251623	57550000000000000000	55344157353657354357	01110231333440245755	0.990KUNS. 16.23.28.AIBY015T.	
0041064	25230320565555555555	55335743404323050323	57550000000000000000	55344157353657354357	USCP, 0.858SECS. 16.23.28.	
0041070	01110231333440245755	01232322565555555555	55355733413325162423	57550000000000000000	AIBY015T. ASSR, 2.060UNTS.	
0041074	55344157353657354357	01110231333440245755	01232424565512200435	55344157353657354357	16.23.28.AIBY015T. ASTT, JPD2007, NOSCL	
0041100	23105700000000000000	55344157353657354457	22021001033012055755	25050104565555555555	SH. 16.23.29.RBHACXJE. UEAD,	
0041104	55335733333513251623	57000000000000000000	55344157353657354457	22021001033012055755	0.002KUNS. 16.23.29.RBHACXJE.	
0041110	25052006565555555555	55335733334013251623	57000000000000000000	55344157353657354457	UEPF, 0.005KUNS. 16.23.29.	
0041114	22021001033012055755	25051523565555555555	55415737443713251623	57000000000000000000	RBHACXJE. UEMS, 6.494KUNS.	
0041120	55344157353657354457	22021001033012055755	25050320565555555555	55375740343423050323	16.23.29.RBHACXJE. UECP, 4.511SECS	
0041124	57000000000000000000	55344157353657354457	22021001033012055755	01052322565555555555	16.23.29.RBHACXJE. AESR,	
0041130	5544574333325162423	57000000000000000000	55344157353657354457	22020731033011055755	9.800UNTS. 16.23.29.RBGYCXIE.	
0041134	25050104565555555555	55335733333513251623	57000000000000000000	55344157353657354457	UEAD, 0.002KUNS. 16.23.29.	
0041140	22020731033011055755	25052006565555555555	55335733334013251623	57000000000000000000	RBGYCXIE. UEPF, 0.005KUNS.	
0041144	55344157353657354457	22020731033011055755	25051523565555555555	55415737444113251623	16.23.29.RBGYCXIE. UEMS, 6.496KUNS	
0041150	57000000000000000000	55344157353657354457	22020731033011055755	25050320565555555555	16.23.29.RBGYCXIE. UECP,	
0041154	55375740333723050323	57000000000000000000	55344157353657354457	22020731033011055755	4.504SECS. 16.23.29.RBGYCXIE.	
0041160	01052322565555555555	5544574244325162423	57000000000000000000	34555556555555555555	AESR, 9.792UNTS. 1	
0041164	33574244331314162357	00000000000000000000	55344157353657333757	2202071032731055755	0.790KUNS. 16.23.04.RBGACHYE.	
0041170	25031420565514343324	34555556555555555555	33574244331314162357	00000000000000000000	UCLP, L10T1, 0.790KUNS.	
0041174	55344157353657334157	01141531333537245755	25030317565555555555	55375733444113031023	16.23.06.ALMYO24T. UCCO, 4.096KCHS	
0041200	57550000000000000000	55344157353657334257	01133711333433245755	23202007565520242241	10, , . 16.23.07.AK4I010T. SPPG, PTR6	
0041204	34335655565557000000	55344157353657334257	01133711333433245755	23202007565520242241	11, , . 16.23.07.AK4I010T. SPPG, PTR6	
0041210	34345655565557000000	55344157353657334257	0323333301022235755	23031416565555553433	12, , . 16.23.10.CS00ABRS. SCLN, 10	
0041214	34355655565557000000	55344157353657334357	5555555404236570000	55344157353657343357	, C1, 33, 0, 0, 573. 16.23.10.	
0041220	56550334565555363656	23031416565555553433	5655033556555555534	34445536354241435555	CS00ABRS. SCLN, 10, C2, 119 32768	
0041224	0323333301022235755	55344157353657343457	01133711333433245755	23200724565524051520	809. 16.23.11.AK4I010T. SPGT, TEMP	
0041230	55433545570000000000	55344157353657343557	01172031333441245755	23200124565516022241	, , . 16.23.12.AOPYO16T. SPAT, NBR6	
0041234	56555655570000000000	16260633010223235755	00000000000000000000	01022516565501043533	DRA, , . 16.23.15.NVFOABSS. ABUN, AD20	
0041240	04220156555655570000	10565514354324345755	5655033456555533756	55344157353657344057	00, NOSCLSH, L28T1. 16.23.15.	
0041244	33335655161723031423	23031416565555553433	55344157353657344057	55555533565555553356	CS00ABRS. SCLN, 10, C1, 24, 0, 0,	
0041250	0323333301022235755	55344157353657344057	0323333301022235755	23031416565555553433	401. 16.23.15.CS00ABRS. SCLN, 10	
0041254	5555555537334570000	40435535363544355555	55364135570000000000	55344157353657344057	, C2, 58 23292 362. 16.23.15.	
0041260	56550335565555555555	23032405565555553433	5555033456555533756	55555533565555553356	CS00ABRS. SCTE, 10, C1, 24, 0, 0,	
0041264	0323333301022235755	00000000000000000000	55344157353657344057	0323333301022235755	0, 001. 16.23.15.CS00ABRS.	
0041270	5555553356553333457	56550335565555555536	44425655555555554042	56555555555555335700	SCTE, 10, C2, 397, 57, 0.	
0041274	23032405565555553433	55344157353657344157	01142531333442245755	23200124565507422205	16.23.16.ALUYO17T. SPAT, G7RE	
0041300	00000000000000000000	55344157353657344157	22021001033012055755	25030322565514343724	Q, , . 16.23.16.RBHACXJE. UCCR, L14T	
0041304	21565556555700000000	33573642401303042357	00000000000000000000	55344157353657344257	1, , . 0.375KCHS. 16.23.17.	
0041310	34555556555555555555	25030322565514344024	34555556555555555555	33573642401303042357	RBGYCXIE. UCCR, L15T1, 0.375KCHS.	
0041314	22020731033011055755	55344157353657344257	01141531333537245755	25030317565555555555	16.23.17.ALMYO24T. UCCO,	
0041320	00000000000000000000	56551617230314231057	55344157353657344257	22021001033012055755	4.096KCHS. 16.23.17.RBHACXJE.	
0041324	55375733444113031023	01022516565522020637	56551617230314231057	55344157353657344257	ABUN, RBF5, NOSCLSH. 16.23.17.	
0041330	01022516565522020640	22021001033012055755	2320012456552021706	00000000000000000000	RBGYCXIE. ABUN, RBF4, NOSCLSH.	
0041334	22020731033011055755			11140256552331232405	16.23.17.RBHACXJE. SPAT, PROFILB, SYSTE	
0041340	55344157353657344257					

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0041344 15305655570000000000 55344157353657344257 22020731033011055755 23200124565520221706 MX, . 16.23.17.RBGYCXIE. SPAT, PROF  
0041350 55335533570000000000 55344157353657333557 16233333010221235755 16273334565555343356 0 0. 16.23.02.NS00ABQS. NW01, 10,  
0041354 55363537553373333533 55335533570000000000 55344157353657343657 16233333010221235755 324 04020 0 0. 16.23.13.NS00ABQS.  
0041360 16273334565555343356 55343537553355343333 55335533570000000000 55344157353657344357 NW01, 10, 124 0 080 0 0. 16.23.18.  
0041364 16233333010221235755 16273334565555343356 36423541553355335533 55335534570000000000 NS00ABQS. NW01, 10,3726 0 0 0 0 1.  
0041370 55344157353657353457 16233333010221235755 16273334565555343356 36423542553355335533 16.23.21.NS00ABQS. NW01, 10,3727 0 0 0  
0041374 55335534570000000000 55344157353657353757 16233333010221235755 16273334565555343356 0 1. 16.23.24.NS00ABQS. NW01, 10,  
0041400 36423534553355335533 55335534570000000000 55344157353657354457 16233333010221235755 3721 0 0 0 0 1. 16.23.29.NS00ABQS.  
0041404 16273334565555343356 36423534553355335533 55335534570000000000 55344157353657354457 NW01, 10,3721 0 0 0 0 1. 16.23.29.  
0041410 16233333010221235755 16273334565555343356 36423542553355335533 55335534570000000000 NS00ABQS. NW01, 10,3727 0 0 0 0 1.  
0041414 16233333010221235755 16273334565555343356 55363537553303333533 55335533570000000000 NS00ABQS. NW01, 10, 324 0C020 0 0.  
0041420 55344157353657333557 16233333010221235755 16273334565555343356 55053537553305333533 16.23.02.NS00ABQS. NW01, 10, E24 0E020  
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0041430 55053537553341333533 55335533570000000000 55344157353657333557 16233333010221235755 E24 06020 0 0. 16.23.02.NS00ABQS.  
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0041454 17252420252400001520 00000067735603770224 01227374037702260040 74370377022401227456 OUTPUT MP ,C BTAR C BV 5 4C BTAR ,  
0041460 03770225010174710377 02240106750361576157 40716441522071016504 65046521631256730000 C BUAA C BTAF C . .5 6JP A D D Q J,  
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0041514 77003104114003073031 12771014310411401006 34131402341230076313 03365600175330143446 YDI5CGXYJ HLYDI5HF1KLB1JXG KC3, 01XLI-  
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0041570 06517407200005020100 06616407105376071601 65070747067401001053 01000574500001103410 F1 GP EBA F GH\$ GNA GG\*F A H\$A E / AH1H  
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0041634 00000000000000000000 00000004113400706213 00010000000000000000 00000000000000000000 D11 K A  
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0041644 02000336036314033411 14510200033630110404 14760200033650001243 04143457140154001503 B C3C LC1IL(B C3X1DDL B C3/ J8DL1.LA= MC  
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0041670 14003402500214660400 53001635040414023502 03675002146734020102 00001710207436513750 L 1B/BL D \$ N2DDL82BC /BL 1BAB OHP 314/  
0041674 24472677525252110000 01001477140034033402 34003006107521007777 60103006120334015001 T\*V )]]] A L L 1C1B1 XFH Q HXFJC1A/A  
0041700 00101006061210713406 50000106350310633502 36000353107134073503 10633502360001001477 MHFFJH 1F/ AF2CH 2B3 C\$H 1G2CH 2B3 A L  
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RA = E,35700,76000. EXPRESS 11 DS01 - V2.0 79/10/30. 15.19.39. PAGE 22  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY OUMP.

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0041720 01002667020045730200 32460200304204165000 25671103050402001367 04472000131754004053 A V B + 8 Z-B X70N/ U ICEDB K O+P KO= 5\$  
0041724 01004040303312375400 11023425101431340504 02001367006354001103 34265052262310160607 A 55X0J4= I81UHLVIED8 K = IC1V/VSNNFG  
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0041734 50001151041020001151 02001426020047620421 02001262617011135000 11161377540011162000 / I1DHP I1B LVB + DQB J IK/ INK = INP  
0041740 11130200142602004762 05040200136700375000 11200410200011200200 14260200476204635000 1K8 LVB + ED8 K 4/ IPDHP IPB LVB + D /  
0041744 11243400123717100704 02001367005730001071 12371703067002003102 02003507076320001144 IT1 J4OHGDB K .X H J4DCF B Y88 2GG P I9  
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0041770 00370000777700000000 17170004061115645707 200000000000000001750 17170000321556135310 7 A EVQ  
0041774 20000000000000023420 17170000000153277452 50750000006100046000 56120211440301042006 P 1SJU 1MAP RCLP  
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0042010 51100001347601036610 20072546100400042175 51100417521377754710 03010417775120041754 D (H CIDPH,RJJ9\$)NOPCBDPJCMDT6  
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0042020 10711547500400041777 03010420357120230455 42112201070400042030 0301042035522042040 (H A1 AC HPGU-HD DQ (HDO)K +HCADD (POO=  
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0042030 51270000504302210622 51470000550334042035 15420513700005636441 15330366213743454620 H M\*/D DD CADP2 PSD 7IRAGD DPXCADP2)RDP5  
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0042150 51100001064373015617 50200417555010000060 54620201445030042171 CODQ+ I(W Q R QO5YP7ZT 89 D  
0042154 36632546205221000113 63610377260460042166 03270421576160777773 37662423365221000051 (H AF8 A,D/PDD /H = 8A9/XDQ 4 TS3)Q ( 3 U-P)Q AK C VD DQ CWDQ. IQ CZDQ  
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0042164 52310000561577215332 37373033304216667601 07600421670233000000 52210000507770620770 IY ,M Q\$Z44XOX7N AG DQ 80 IQ / G  
0042170 12727547200233000000 00000000000017204400 00000000000017204400 16724143367501327554 J +P80 DP9 DP9 N 683 AZ =  
0042174 17457502200000000000 10600216726130042177 02000424176100046000 51170000205120041757 D+ BP H BN XQ8 B DTD D (Q P(PQO.  
0042200 43603154167677012604 21707760105030000060 20057633702313015721 54610213305472063430 8 Y=N AVDQ H/X PE O SKA. O= BKX= FLX  
0042204 05470417771355565501 03070422175422113333 26130156726170000007 27406040004221346000 E\*DD K , ACGORD=RI00VKA, GW5 5 7Q1  
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0042214 76300111272740176200 03110422136335023130 15671205075562110055 03150421077100045776 XAIWWSO CIDRK 2BYXM JEG I CMDQG D.  
0042220 07500421077100045001 04000421076100046000 51200417545110005220 12620546200331041777 G/DQG D/AD DQG D (POD=(H )P J E-PCYDD  
0042224 61700052000400042074 51270000224330520243 13444203650332042237 51470000644301415740 ) D DP (W R8X)B8K97C CZDR4(+ 8A6.5  
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0042234 71700516042066643022 53461207521140413774 03170422505147000026 113317671010203420765 -ENDP XR\$-JG)I564 CDOR/(+ V10D HJC7G  
0042240 03100422504340312717 20231156745137000021 04700422500303042250 54610114475110041764 CHDR/85YWDPSI, (4 QD OR/CCDR/- AL\*(H00  
0042244 20444126246130042175 43301764705462020360 21407634402324312612 50610000006100046000 P96VT XDQ 8XQ = BC Q5 15STVYJ/ O  
0042250 51100417645120000050 03010422700302042270 51200417635140000057 03120422704366720405 (H00 (P /CADR CBDR (PDQ (5 .CJDR 8 DE

RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.39. PAGE 23  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0042260 04000437656100046000 03170422707170340112 63440204447633020752 12674270436130042265 D D4 D CDDR 1AJ 9B09 ORG1J 7 8 XDR  
0042264 04000420436100046000 63300266400301042271 43301511004176420360 23243136125061000000 D DP8 D XB 5CAOR 8XMI 6 7C SIY3J/  
0042270 13000023300000046000 71040000006160042270 20007767000400043765 73770000777700000000 K SX D D DR P D D4  
0042274 72617700056160000044 12301032604230166661 72660000050326042301 72660000056166000001 E 9JXHZ 7XN ECVDOSA E A  
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0042310 03060423151532020606 20222203065012000062 13116151105226000020 03010423161562020260 63310023300000046000 .KJI3D DSO.KJI D DSO.KN3 D DSG Y SX D  
0042314 57131211360400042317 57131211600400042321 57131636600467042307 03310456174321420744 (K PK I YXSX D (O PH JACCYD,08Q7G9  
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0042334 21444633205117000074 03300423746140041777 03100423740200041777 51300000414360156450 5DS8 /DO CXDS 5DO CHDS 8 DO (X 68 M /  
0042340 61400423436150041777 51100001061003321144 51200417651533437313 12706613004235610622 C0DS.899 (H AFHCZ19(PDO M08 KJ K 72 FR  
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0042354 51200417630312042356 21144117462124476311 63410372232035063520 03110423664330116111 ,ILIR(P QGL60-QT+ I 6C SP2F2PCIDS 8XI I  
0042360 56111434225120000007 15114030504237364411 77154211010445042371 53114115413757520522 J XV D M15X/7439I M71AD+DS \$16M64.1ER  
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0042370 03250423656051000000 43260154425117000053 43771153322012243252 374471561221140320122 (4 U(+ P8VA-710 \$8 1\$2PJZ)49 ,JQ5ZAR  
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0042424 20073613004217721244 54620023300000046000 51300052246150000200 54620433307640014633 J 7CXMOS = SX D (X )T / B = DOX 5A-O  
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0042444 62546254770306042546 03260424720400042546 726464373550306042624 72747457620326042626 D DU\* CVDT D DU- CVDVT . CVDV\$  
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0042464 03260430007264557163 72644476760326042546 51170000224326020130 15612733107216770017 CFD,SCGDYN 9 CVDU-(O R8VBAXM W H N O  
0042470 03060456230307043116 51400417702035011641 12553203151113120167 37661460000316042423 CQDU (O P15DO P2AN6J ZCMKJA 4 L CNDTS  
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0042500 51100000505140041763 03340424231163220537 72767767770337042510 53410534400304042423 (M PP9Z8SC1DTSI RE4 C4DUH\$6E15CDDTS  
0042504 51270000202044320223 21013200146130042513 12660206350200042043 03010424232005513777 M+4 KD1V7QAZ L XDUKJ BF2B OP8CADTSPE(4  
0042510 15453762701304512642 02000421756100046000 51370000254375315027 43460666201543410611 C DO M+/B DO D (4 U8 Y/W8-F PM86FI  
0042514 03000417767371154750 03040425230323042523 71000100006100046000 72100000770331042546 C DU3 X CDDUSCSDUS A D H CYDU-  
0042520 03000425367230767777 03000425360320042500 51470000205130041770 11434437605137000106 QH AF4A BJC DU3CPDU (+ P1XDO 1894 (4 AF  
0042524 21106201063701620252 20430157477247770017 03340424236100046000 20306164237177772777 CDDU0(+ RPA.\* \* OC1DTS D PX S W  
0042530 03040425335147000022 10611030704250046000 13777547500450042331 56335206367671020370 Q\*6H5CTDU3H HX 7/D K +/D/DSY,0)F3 BC  
0042534 21474110400324042536 51370001052076615637 54630040004233146000 43622125565110042545 J -XCSDSY(4 AEP ,4= 5 7OL 8 QU,(HOU+  
0042540 12667546300323042331 0311177000000777777 71700000050400042322 11/5 7/D CIO ED DSR DB DSR  
0042544 11515040004250046000 15440624400000037431 23242476222261620273 63460114246750416634 (PDU,P7W0/M9FT5 C YSTT RR B -ALT /6 1  
0042550 51200425562042273350 02550426116100046000 00061062421414040000 51170000032011415610 C3DT = DZ)B DVI D FH 7LLD (O CPI6,H  
0042554 03363020004177746000 51170001041061153633 02000417776100046000 53133106115167000104 \$ XP 6 (O ADM M30B DO D \$KYFI( AD  
0042560 02000417776100046000 51170000654366620106 15616536330200041777 51170000621061153633 B DO D (O I M30B DO D (O H M30  
0042564 02000417776100046000 51170000671162153633 02000417776100046000 51170001017621063410 B DO D (O 8 AFM 30B DO (O AA QFIH  
0042570 02000417776100046000 51170001061061153633 02000417776100046000 51100001232011415610 D5DV1D DVQ(O AFH M30B DO D (H ASPI6,H  
0042574 04400426110400042621 76310107552035054750 12553040004250046000 51170000631061153633 \$ XP 6 YAG P2E+/J X5 7/D (O H M30  
0042600 53633020004177746000 51470000652024476710 15442040004261746000 53433204361544237141 B DO D (+ PT\* HM9P5 7 \$8ZDM9S 6  
0042604 02000417776100046000 20262156122011354610 03030417770331041777 51170001052021115612 CYDVMD DVQPVQ,JP12-HCCDO CYDO (O AEPQI,J  
0042610 03310426150400042621 20244511700006520444 111217671012261454610 20465127475373346000 = P 6 PT+I FID91JU HJ +-HP- W+\$ 1  
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00000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NDS 1-8J03T/R28. NDS 1.4 STUDY DUMP.

0042620 04000417776100046000 10755567310200042472 51170000206130042175 43203151120200042225 D DO D H YB DT (O P XQD 8PY(JB DRU  
0042624 71100000012015012551 04000425006100046000 72646360737274627262 03060426347264637351 H APMAU(D DU D CF0V1 (   
0042630 03070426440316042472 63550045004263476110 71600000042065213256 20150125210400042500 CGDV9CNDT + 7 \* H DP QZ,PMAUQD DU  
0042634 51400426422012254241 10544226024370256420 20753433525122000005 53653203225476111434 (5DV7PJU76H-7VB8 U PP 101(R E3 ZCR= IL1  
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0042644 43645635505130041766 06540425460615042546 15056766105623520622 36506434722120215424 8 ,2/(XDO F=DU-FMDU-ME H,S)FR3/ 1 QPQ=T  
0042650 2123462647777623712 20051514700010520644 04610425460320042655 20601032204265546000 QS-V\* 4JPEML HJF9D DU-CPDV P HZP7 -  
0042654 03120426557171000000 12553113640616042664 03030425460330042500 031704252161564654640 CJDV J YK FNDV CCDU-CXDU CODUMN -5  
0042660 76310032704266243614 51470000621116420122 20136137771261354750 56635040004177746000 Y Z 7 T3L(+ IN7ARPK 4 J 2\*/ , /5 6  
0042664 05600426671264654640 03300425000307042660 04000425166100046000 03030426650307042665 E DV J -5CXDU CGDV D DUN D CCDV CGDV  
0042670 43144115150400042472 20422635501544043614 06540425466265000005 06150425465623511762 8LMMD DT P7V2/H9D3LF-DU- EFMDU-,S(O  
0042674 22602030204270076310 03170427001272321236 6352006540254654720 06150425465623510622 R PXP7 G HCDDW J J3 ) 57= \*PFMDU-,S(FR  
0042700 07460425466264777767 06600427030266042712 76410040004271246000 51670000300400042714 G-DU- F DWCB DWJ 6 5 7 T ( X D DWL  
0042704 51670000350400042716 04000427126100046000 04000427126100046000 04000427126100046000 ( 2D DWND DWJ D D DWJ D D DWJ D  
0042710 76410040004271246000 71400000036100046000 51100417667605020430 12110125140400042500 6 5 7 T 5 C D (HDD EBDXJIAULD DU  
0042714 5432150220000222703 10622543615066000002 51321542312270311602 076401137005467156731 -ZMBP RWCH U\* / B-ZMYR YNB= 14 = M Y  
0042720 04000417776100046000 72646057726254577163 03060425430550042472 43222563202026615632 D DD D . -. CF0U8E/DT 8RU PPV ,Z  
0042724 20522114251555212646 20552566200400042735 63550205230335042730 56731040004242346000 P)QLUM QV-P U PD DW2 BESC2DWX, H5 771  
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0042740 03020427410333042500 12552045004251620236 76550106220615042546 56635040004264446000 C8DW6C0DU J P+ 7( B3 AFRFMDU-, /5 7 9  
0042744 71310000002035012553 04000424726100046000 51270000225147000101 21244152207222770016 Y P2AUSD DT (W R(+ AAQT6)P R N  
0042750 20411164420324042472 63550205520615042546 06540425467315056335 63530213220615042546 P6I 7CTDT BE)FMDU-F=DU- ME 2 \$BKR FMDU-  
0042754 73430213226363527506 06560425460664042546 6160001006343066535 07640425466130042772 8BKR ) FF,DU-F DU- A 8F 2G DU- XDW  
0042760 03110422745120000020 43300156205615020606 03310427721041120151 61607775777637077616 C1DR (P P8XA,P,M8FFCYDW H6JA( 4G N  
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0043004 16232122240322042472 63550205520615042546 06540425466365056335 NSQRTCRDT BE)FMDU-F=DU- E 2FNDU-F DU-  
0043010 213361511305345321314 63646066404254663440 07410425466150000100 10544767106130043017 QO (X3+ZKL 57= 15G6DU- / A H=\* H XDXD  
0043014 11773133370303042274 04000425466100046000 00150425460016043035 50120000600754042546 I YO4CCDR D DU- D MDU- NDX2/J G-DU-  
0043020 63560031704302120136 63310211220430043032 15110636100764043033 66634075604303453233 , Y 8BJA3 Y8IRDXXZMIF3HG DXD 5 8C+Z0  
0043024 03120430356452154141 67441655156160043027 04000447226100046000 10755766105472046000 CJDXX2 JM66 9N M DXWD D\*R D H . H= D  
0043030 54430430361140443700 12646546300400041776 71600000110400043030 7160000070400043030 -8DX31594 J -XD DD ID DXX GD DXX  
0043034 71600000030400043030 54550205237160000005 03250430300400042423 51200000505117000022 CD DXX= BES ECUDXXD DTS(P /ID R  
0043040 21144156107236770016 03330424720302043056 63550766700615042546 71300076000654042546 QL6,H 3 NCDOT CBDX, G FMDU- X F=DU-  
0043044 53453105446130043054 20437205221544312646 51170000207245434544 21151725576767611131 \$+YE9 XDX=P8 ERM9YV-(O P +8+9QMQU. IY  
0043050 72117767770331043052 53220532200302041776 15545206350335042043 04000425466100046000 I CYDX)\$REZPCBDO M=)F2C2DP8D DU- D  
0043054 13777030104305654740 54750020004177746000 51100417620311041776 76670546100400041776 K XH8E +5= P 6 (HDD C1D0 E-HD DD  
0043060 63550061504254621530 06540425461545046000 62647777640660043064 02660430776100046000 /7= MXF=DU-M+D F DX 8 DX D  
0043064 61300431040400042150 51100000310400043077 51100000300400043077 51100000260200043077 XDYDD DQ/(H YD DX (H XD DX (H VB DX  
0043070 51100001060200043101 51100001060400043077 51100000270400043077 61300431120400042150 (H AFB DYA(H AFD DX (H WD DX XDYJD DQ/  
0043074 04000430646100046000 61300000410400043115 61300000430400043115 10611437005663556731 D DX D X 6D DYM X 8D DYMH L4 , Y  
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0043114 40121040004307746000 43102653510400043077 63550205446165000020 06150425465110043131 5JH5 8G 8HV\$(D DX BE9 PFMDU-(H0YV  
0043120 06640425461565023216 03120425464343054750 03060431305622066535 26101674256100046000 F DU-M BZNCJDU-88E\*/CFDYX,RF 2VHN U D  
0043124 10622201015562454221 03210431246361055324 07600417771522411343 36232040004312446000 H RAA +7QCQDYT E\$TG DD MR6K835P5 8J9  
0043130 56235654220400043124 37600200000000000002 03100431365010000060 21130562212124463710 +S,-RD DYT4 8 BCHDY3/H QKE QQT-4H  
0043134 03020420125352163320 03150424410400041777 72107777600321043142 43730157075230044611 C8DPJ\$)NOPCMDT6D DD H CQDY78 A.G)XD-I  
0043140 21730636306377013777 02660000006100046000 53500261456154001741 04000432256100046000 Q F3X A4 8 D \$/B + = D6D DZU D  
0043144 61300431450400042150 52210000205130000106 20203614004177743730 637106660003022043152 XDY+D DQ/IQ P(X AFP3L 6 4X F PCRDY)  
0043150 55221154371522737242 71700000060322042322 51200000411633720244 37432033404315766540 (R1-4MR 7 FCRDSR(P 6NO 8948P058M 5  
0043154 51200417636140042343 13666723277237554620 03330431575262000000 05700421260244000000 (PD0 5DS8K SW 4 -PCODY.) E UQVB9  
0043160 51170000202010256271 03210417772124453521 43322114350304041777 61300431640400042150 (O PPHU CQDD QT+2Q8ZQL2CDDO XDY D DQ/

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0043164 56271212446535146000 04000424416100046000 27007230700400042222 21060561715127000020 ,WJ9 2L D DT6 D W X D DRRQFE (W P  
0043170 20052366102003636720 03360431715461054720 04000417776100046000 61400000606662054104 PES HPC PC3DY = E\*PD DO D 5 E6D  
0043174 21060211302000663510 04570423316540457114 66670211306251000000 05570423310400041777 QFBIXP 2HD.DSY 5+ L BIX ( E.DSYD DO  
0043200 51170000207621020271 12612546100200041777 52110432144600010611 51600432240400041777 (O P QBB J U-HB DO )IDZL- AFII( DZID DO  
0043204 04000417776100046000 54550261456154001741 74600763105117000021 13663203305226000060 D DO D = B + = 06 G HIO QK ZCXIV  
0043210 03010417775147000022 21230635200457041777 12643511700002054640 10211613004177720206 CADD (+ RQSF2PD.DO J 2I BE-5HONK 6 BF  
0043214 03220422250200041777 76370213075120041757 43701624300001323647 66341222325160041760 CRDRUB DO 48KG(PDO.8 NTX AZ3\* 1JRZ( DO  
0043220 03220417775127000022 51170000206242777776 07400420566050000000 044504205660400041777 CRDD (W RID P 7 G5DP, / D+DP,D DO  
0043224 54550261456154001741 71740017010750044212 55251032704421220237 71400076005135044630 = B + = 06 DAG/D7J UHZ 9QRBA 5 (2D-X  
0043230 22613110422271663630 03270432331071120714 03270432332073711047 63700137775170000077 R YH7R 3XCWDZOH JGLCWDZOP H\* A4 (   
0043234 03330447560266000000 7110000030660020144 61400052000447043414 04000433436100046000 COD\*,8 H C BA9 5 ) D\*D1LD DOB D  
0043240 21144624177777054151 06400442120244043251 04000442126100046000 04000432536100046000 QL-TO E6(F5D7JB9DZID D7J D D DZ\* D  
0043244 04000432636100046000 43600040004325146000 54211433220400043265 50110000030400043271 D DZ D 8 5 8UL =QLORD DZ /I CD DZ  
0043250 61600000030400043301 51270000575167000050 43336117325072000000 51370000544326020114 CD DOA(W .( /80 DZ/ (4 =8VBAL  
0043254 71400017501551266411 20114426541541242754 20652434442073015334 36667201143666315412 5 O/MIV IP19V=M6TW=P T19P A513 AL3 Y-J  
0043260 50630000006744155331 05400432556130043263 10144031404202146000 61400432640400042374 / 9M\$YE5DZ XDZ HL5Y57BL 5DZ D DS  
0043264 43700040004177646000 20114514004331515113 71700100011522337621 54610374640324043277 8 5 6 PI+L 8Y((K A AMRO Q= C CTDZ  
0043270 43700547510400041776 43250616000000315612 71700602015011777776 54616156122112467661 8 E\*(D DO 8UFN Y,J FBA/I = ,JQJ-  
0043274 06600432735110043316 54251436221562637661 03260432771061154620 43114207301151536557 F DZ (HDON-UL3RM CVDZ H M-PH17GXII\* .  
0043300 04000442216100046000 43071152506352021503 15250634204302246000 04500442120765044212 D D7Q D 8G1)/ )BMCMUF1P8BT D/D7JG D7J  
0043304 07140442126100046000 43336542111522015513 27202111315130041775 40432262040312043311 GLD7J D 80 7IMRA KWPQIY(XDO 58R DCJDOI  
0043310 76210460006100046000 04400433143762546000 5461004510417654121 67551040004330546000 QD D D5DOL4 = +H6 6Q H5 8X=  
0043314 36625126160200043312 000000000000003641100 00000000000046113200 10711211351154120151 3 (VNB DOJ C I -1Z H J121-JA(   
0043320 52350000211522436625 52450000207621020635 03130433230321041776 20406513000005743014 )2 QMR8 U)+ P QBF2CKDOSCQDD P5 K F XL  
0043324 03340417762056011303 20102370534330176500 20260030004334146000 20173117315565112447 C1D0 P,AKCPHS 18X0 PV X 81L POYQY IT\*  
0043330 51170000202046636742 54740376121075543260 51370000225461020330 15432101666130041777 (O PP- 7- C JH =Z (4 R= BCXMRQA XDO  
0043334 72247700155475020601 03220422250326042225 43205202651162120313 03160436010333042225 T M= BFACRDRUCVDRU8P)B I JCKCND3ACODRU  
0043340 04000436016100046000 03310417767150000011 20560020004332746000 20435246315137000021 D D3A D CYDQ / IP, P 8Z P8)-Y(4 Q  
0043344 51270000200303044212 04600433470430043354 20203033204335720271 1114113423661346000 (W PCCD7JD DO+DXDO=PPXOP82 B ILIK73 I  
0043350 03060442123731315224 0301043352033043404 12621546200301041776 0400043466100046000 CF0D7J4YY)TCAD0)COD1D)J M-PCADD D D1D D  
0043354 51300000574301411303 20314635300557043346 76710207440400041776 11141202710301043347 (X .8A6KCPY-2XE.DO- BG9D DD ILJB CAD0\*  
0043360 5075000002114410711 04000423226100046000 10411432012145243060 62347777730703044212 / QL6GID DSR D H6LZAQ+TX I GCD7J  
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0043370 20401106550324043377 51270000201015515320 21214203061522063430 20206053004337454151 P5IF CTDO (W PHM1SPQW7CFMRFI\*XP 1 84+6(   
0043374 63510366122014463515 07450442120530043377 54610541110311043374 04300442212113010566 (C JPL-2MG+D7JEXDO = E6IC1D0 DXD7QQAIE  
0043400 62417777566251777776 06400442210750044212 53755675510650043402 02000417766100046000 6 , ( F5D7QC/D7J\$ , (F/D1BB DO D  
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0043410 43203116217600020660 54650704577237615112 03040421756130042175 02000422256100046000 8PYNQ BF = GD. 4 (JCDDQ XDQ B DRU D  
0043414 51170000205130000050 76210106332026037712 55651547107466013777 51400417635463054750 (O P(X / QAFOPVC J M\*H A4 (5DD = E\*/  
0043420 03020434305224000001 03020434305224000001 61500434250324043424 04000423436100046000 CDDIX T S CBD1X)T A /DIUCTD1D D58 D  
0043424 10622663500400042043 51400417631377710611 54740031104342713666 03340434302064453640 H V /D DP8(5DO K FI= YH87 3 C1D1XP +35  
0043430 43002511700002020073 11301613004177720301 03030422256130043601 56271033304222574450 8 UI 8B IXNK 6 CACCDRU XD3A,WHOX7R.9/  
0043434 21244533210303042225 13634031604343754630 02000422256100046000 51200417676130041777 QT+OQCCDRUK 5Y 88 -XB DRU D (PDO XDO  
0043440 13623216440316042225 13710131105071000000 61300417770200044225 20600606000120710004 K ZN9CNDRUK AYH/ XDO B DRUP AP D  
0043444 20600066000120710077 20670067000120720001 20660060000120640001 20060000000120730077 P AP P AP AP AP APF AP  
0043450 20110011000720400007 20140011000120700077 20110011000120620001 20140011000120700077 PI I GP5 GPL I AP PI I AP APL I AP  
0043454 20000000000020000000 20110011000320540003 20300013000120727777 P P PI I CP= CPX K AP PR J AP  
0043460 20100011000720540007 21144624177777343660 06400442125137000071 76510203146160043465 PH I GP= GQL-TO 13 F5D7J(4 (8CL D1  
0043464 15336205650313043767 51370000201377743044 02440434736100046000 15635546300400041776 MO E CKD4 (4 PK X989D1 D M -XD DO  
0043470 1543576500400043473 15635546300400043414 15435205670400043473 20330115367211777757 M8. D D1 M -XD D1LM8)E D D1 POA(3 I .  
0043474 03110434762034410433 5110005221430601071 76270206305473121206 52120056401377711661 C1D1 P16D0(H )Q8FAGI WBFX= JJF)J ,5K N  
0043500 54771547115461013666 51770000355167000030 51770000265177000074 51670000735177000064 = M\*I= A3 ( 2( X( V( ( (   
0043504 51670000711666620030 51670000661160475751 03050435105140000050 54740376651074455751 ( N X( I \*. (CED2H(5 /- C H +.(   
0043510 546300137770400041776 54351432602036015532 20330263456114007717 15112201035211000013 = A4 D DO =2LZ P3A ZPOB 81L OMIRAC)I K  
0043514 43066152105041000003 62327777705222043545 66400213440630044212 63620101442126021160 8F )H/6 C Z )RD2+ 58K9FXD7J AA9QVBI  
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0043524 63370376174217263373 03260435266140006200 6337366333755123434 15040207146631112670 4C D7OVO CVD2V 5 43 04 J11M0BGL YIV

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0043530 43461377252064476131 15434760100266000000 61400067000400043522 20103360052740127200 8-K UP \* YM8\* HB 5 D D2RPHO EW5J  
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0043540 05400435435110000057 13215711000000412260 03020435437110000011 13666201141277154661 E5D28(H .KQ.I 7J CBD28 H IK ALJ M-  
0043544 54750040004177746000 00000000000001044212 01530000000000043554 03430000000000043557 = 5 6 AD7JA\$ D2=C8 D2.  
0043550 12000000000000043565 01600000000000043561 03430000000000043563 12000000000000043570 J D2 A D2 C8 D2 J D2.  
0043554 15341204732032611004 03240435567200000330 20501040004353346000 15340205011100420327 M1JD PZ HDCTD2, CXP/H5 8\$1 M1BEA1 7CM  
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0043630 12661030604240720147 72610001004262636664 37163032104240710366 51170000504320112612 J HX 75 A\* A 7 4NXZH75 C (D /8PIVJ  
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0043664 37664375630325043704 10366032604370446000 51170000754366615440 43236520410363351510 4 8 CUD4DH3 Z 8 9 (+ (Q7 E98S I FBMH  
0043670 11221126525061000000 43352211361551313135 61300435740301042407 71200017504252536345 IRIV)/ 82RI3M(YV2 X02 CADTG P O/7)1 +  
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0043714 03140437165147000026 50740000000304044212 10644214526130043737 72244376650302043721 CLO4NI+ V/ CDD7JH 7L) XD44 T8 CBD4Q  
0043720 03130420430400043741 0303043743535120322 51270000207243435465 51370000220304042043 CKDP8D D46CCD48 2JCR(W P 88= (4 RCD0P8  
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0043734 61600437437670076070 03010437655127000020 76310203651272354720 20144107110311041776 D48 G CAD4 (W P YBC J 2\*PPL6GICIDD  
0043740 04000437436100046000 27207747507035772376 54710127520313041776 1377546400400041776 D D48 D WP \*/ 2 S = AW)CKDO K -5D DD  
0043744 61500417760400042343 63610614003567076710 06640442125626015627 13562027440305041776 /DD D D58 FL 2 G HF D7J,VA,WK,RC9CEDD  
0043750 61400060206150007776 07640437560756043756 43006201362006611501 57361207015445113434 5 P / G D4,G,D4,8 A3PF MA.3JGA=+I11  
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0043760 15750123126257777774 61600417760550043767 52137777765425176710 13612030604376776710 M ASJ . DD E/D4 JK -UD HK PX 8 H  
0043764 20745040004177646000 52300000714326020314 15332460006100046000 72037700016357027153 P /5 6 IX 8VBCLMOT D C A .8 \$  
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0043774 22050132200302044003 13737547300310044002 26251430140450044002 51370000712026013732 REAZPCBD5CK \*XCHD5BVULXLD/D58(4 PVA4Z  
0044000 11307031304400154730 13777202145372055771 13777026600000046000 03000442127671020744 IX YX9 M\*XK BL\$ E. K V D C D7J BG9  
0044004 02660000006100046000 10655616004177620636 02000423606100046000 73410204565224044055 B D H ,N 6 F3B DS D 6BD,ITD5  
0044010 62647777716150041777 20500032404401220236 03350417760660044212 63320262620400044547 /DO P/ Z59ARB3C2D0 F D7J ZB D D+\*  
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RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.40. PAGE 27  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R28. NOS 1.4 STUDY DUMP.

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0044100 57345675050313041776 56146676611066154615 06600441011377764501 030404417765412054750 .1, ECKDD ,L H M-MF D6AK +ACDDO -JE+/  
0044104 50320000022221163430 03220417776072777757 04400420560445042056 04000417776100046000 /Z BRQNXCRDO .D5DP,D+DP,D DO D  
0044110 76710207460400041776 43252201521061111721 21606433662066076210 15313430612072220166 BG-D DO BURA)H 1000 O P G HMYIX P RA  
0044114 15110030104412454651 43624030304411642131 20624513700005220350 11463364146640037564 MI XH9J+-(8 5XX9I QYP +K ERC/I-O L 5C  
0044120 03250441226140000004 37446460006100046000 15336366436130044124 20624546300200042023 CUD6R 5 D49 D MO 8 XD6TP +-XB DPS  
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0044130 62310000141551253433 21560033104413220530 20514366545064000000 63570105770450044147 Y LM(U10Q, OH9KREXP(8 =/ .AE D/D6+  
0044134 76210215445147000020 20230151403764211404 63350204661054420452 15240030204177654640 QBM9(+ PPSA(54 QLD 2BD H-7D)MT KP6 -5  
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0044144 06430441474305253454 04510441464362020622 15446157701267454640 70127777575025777776 F8D6+8EUL-DID6-8 BFRM9 . J +-5 J ./U  
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0044260 50130000061533420672 63536151147131000000 61700000702033012331 03170442711104620002 /K FM07F \$ (L Y POASYCOD7 ID B  
0044264 63207200023712163400 07370442660321044561 20001633046143777717 53166236452324211661 P B4JN1 G4D7 COD+ P MOD 8 0\$N 3+STON  
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0044344 04400443470734044561 54254436225130041773 15626276064063654620 24202040004456246000 G3D8986+8ID5D8= 5D8\$(PDQ WPOFOTPP5 9,T  
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0044374 61407777550317044363 54610137770753044227 67331434360530044356 26701715000000010644 896L-3 EF1D8 / A P J/8 AV OM AF9  
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0044420 21462123235024000006 73220422263725237664 1633254442033304414 12323532611564720267 SUA\$JHPZ9)CCD90-X(,4RVZC9P 21 JZ22 M B  
0044424 03360444140304044427 05400444146145000000 04000444146100046000 2146005700442466750 Q-QSS/T F RDRV4US NOU97COD9LO= . 97- /  
0044430 43760762502073020244 11575125251075526105 54750040004454646000 54110276515461054550 C3D9LCDD9WE5D9L + D D9L D -IB (= E+/  
0044434 66500133200313044414 66540054004442766570 05700444277071767761 26151271012325011121 8 G /P B89I.(UUM ) E= 5 9= VMJ ASUAIQ  
/AOPCKD9L = = 97 E D9W CGD7W D

RA = E,15700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.40. PAGE 28  
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0044444 03070444510327044447 73771031704456142764 03060444473777446000 27204277077420244772 CGD9(CWD9\* HY 9,LW CFD9+4 9 WP7 GTPT+  
0044450 26727227276100046000 73271634713733276710 37662207570336044540 23615617077771720360 V WM D WNI 40W H4 RG.C3D+5S ,QG C  
0044454 67361152364357011363 53223510004431246000 03010444644327215016 15212210026222000070 31)38.AK \$R2H 9YT CAD9 8WQ/NMQRHB R  
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0044464 54221126250306044464 75426246262040246000 62640037247646212334 03300444720400044561 -RIVUCFD9 7 -VP5T 4T -QS1CXD9 D D+  
0044470 54221616600000412625 03060444702462676462 23627126265462054100 23634126617642754610 -RNN 6VUCFD9 T S VV= E6 S 6V 7 -H  
0044474 20402674416334054220 20401540206334312625 05400444714346164440 15134606300002011643 P5V 6 1E7PP5M5P 1YVUE5D9 8-N95MK-FX BANB  
0044500 75526727100400012665 21102643202061454250 20444074304450377546 15224763105463012727 1 WHD AV QHV8PP +7/P95 X9/4 -HR+ H= AWW  
0044504 73551040004454346000 73410204565224044055 03240445072023646000 63320262620400044546 H5 9=1 68D,1TD5 CTD+GPS ZB D D+  
0044510 71700200000301044035 23415151144337276510 12331207576333020172 73270235352020253416 B CAD52S6(1L84W HJOJG. OBA WB22PPUIN  
0044514 6332011254253521773 13645114541555713454 03040445250430044527 03020442132141076310 ZAJ-R1)0 K (L-M 1-CDD+UDXD+WCB07KQ6G H  
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0044540 54250763102021446000 03220445431043302462 50230000151262454620 50430000021564321444 -UG HPQ9 CRD+8H8ZD /S MJ +-P/B BM ZL9  
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0044550 52430057207263777677 43560153451104620303 03200442135243000002 15642214445333020130 18 .P 8,A+1D CCCPD7K)8 BM RL9)OBAX  
0044554 03140442130460044556 54440766105464013264 03020445701521520114 60630000207371020144 CLD7KD D+,-9G H= AZ CBD+ MQJAL P BA9  
0044560 15115023300000046000 61500442320200044213 76110271012410145212 2670643114277071116 MI/SX D /D7ZB D7K IB ATHL)JV YLW IN  
0044564 24707211144177227101 41112267672276726161 61660000142216136617 02440000006100046000 T IL6 R A6IR R LRNK DB9 D  
0044570 54550437011277554750 03350442130255000000 51340446056621163630 02660000006100046000 = D4AJ \*/C2D7KB (1D-E QN3XB D  
0044574 00010432240000000000 00000000026100046000 04000000026100046000 5150041753535121560 ADZT D B D (/DD%12JM  
0044600 54431205066160044603 21344145555313021444 6355063440040044717 13777511000013176210 8JEF D-CQ16+ \$KBL9 F15D D+DK I KD H  
0044604 36612546100400044227 00000000000000044577 00000000000000044561 00000000000000044561 3 U-HD D7M D+ D+ D+  
0044610 00000000000000044561 00000000000000044561 00000000000000043144 00000000000000043160 D+ D+ DY9 DY  
0044614 00000000000000043166 00000000000000043167 00000000000000043173 00000000000000043200 DY DY DY DZ  
0044620 00000000000000043202 00000000000000043202 00000000000000043206 00000000000000043215 D28 D28 D2F D2M  
0044624 00000000000000044735 00000000000000044212 00000000000000044212 D+2 D7J D7J D7J  
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0044640 40000445610000043572 40000445610000043574 00000443330000044221 00000445610000045044 5 D+ D2 5 D+ D2 D80 D7Q D+ D79  
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0044660 40000445610000043611 00000443170000044221 00000446730000043362 00000442420000044221 5 D+ D31 D80 D7Q D- D0 D77 D7Q  
0044664 00000445610000043511 000004456750000044221 00000445610000044212 00000000000000044212 D+ D21 D. D7Q D+ D7J D7J  
0044670 13777053004422746000 54331672750313044677 547500400004423246000 6335010311615077772 K \$ 9R -ON CKD- = 5 9ST 2ACI /  
0044674 20520617077777643270 03350445616160044670 67275053004467754351 10633213300303044671 P)FOG Z C2D+ D- W/1 9 8(H ZKXCCD-  
0044700 11423031404470163237 53762672210620044701 03040446716343553160 51400447157461063240 17XY59 NZ43 V QFPD+ACDD- 8 Y (5D+M FZ5  
0044704 43752770051566736060 20636150071266054141 06420447117614076044 20103437703611015017 8 W EM P /GJ E66F7D+I LG 9PH14 3IA/D  
0044710 11171200322015412110 12761366645574167442 46400447146100046000 070404470602660000000 10J ZPM6QHJ K N 7-5D+L D GDD+FB  
0044714 00447373007000737305 00000001000000000100 00500000000000000000 06500447035140044715 9 E A A / F/D+C(5D+M  
0044720 6324075012144473604 04000447046100046000 76140760442010343670 36110150161116120032 TG/JL9+3DD D+D D LG 9PH13 3IA/NINJ Z  
0044724 74610201541211043752 75015156671500720636 12010126065160044731 46400447316100046000 8A-JID4) A(, M F3JAAVF( D+Y-5D+Y D  
0044730 02660000006100046000 00120457560000045776 00000000000000000000 B D J., D.  
0044734 00000000000000000000 50100447322433176410 03010417772045776230 23334137132020354710 /HD+ZTOD HCADD P+ XS064KPP2+H  
0044740 7202054010400043142 60407777165710421130 13215030204177774001 61400000225311456274 8 -AD DY7 5 N.H7IXKQ/XP6 5A 5 R\$1+  
0044744 53354264422665373330 26161110030313044755 06640447516100046000 06650417776450027655 \$27 7V 40XVNIHCKD+ F D+( D F DD /B  
0044750 51600447340400041777 03070447540645041777 52150000206375046000 04000420566100046000 ( D1D DD CGD+-F+DD JM P D D DP, D  
0044754 06540447520400041777 03000447510400044747 60407777160470044776 57404214306244000000 F=D\*)D DO C D+(D D+\* 5 ND D+ .57LX 9  
0044760 04470447770336044775 5117000022666163410 5010000060524400002. 21130635100457044775 D+D\* C3D+ (D RV N1H/H )9 RQKF2HD.D+  
0044764 52110000222605473010 26131054004477146000 0736044770075604477 04000447756100046000 )1 RVE+XHVKH= 9 L G3D+ G.D+ D D+ D  
0044770 07530447770400044775 64501054504477726654 0763044775031004477 06530447756450027657 G3D D D+ /H=9 -G D+ CHD+ FSD+ /B .  
0044774 51600447346100046000 63630261457140007600 02660000006100046000 60307330447601057103 ( D+1 D B + 5 B D X X9 AE C  
0045000 61300417770400044224 00000002000000000000 00045021000000000000 00000005000000000000 XDD D D7T B D/Q E

RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.40. PAGE 29  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R28. NOS 1.4 STUDY DUMP.

0045004 70070000000000000000 00000000000000000000 00000000000000000000 00045001000000000000 G D/A  
0045010 00000000000000000000 00000000000000000000 00000000000000000000 00000000000000000000

0045020 00000000000000000000 00000000000000000000 00000000000000000000 04000000026100046000 D B D  
0045024 00004154000576000000 00000000000000000000 00777700000000045024 70070000000000000000 6= E A D/T G  
0045030 00000000000000000000 00000000201071000000 00000000000000000000 00000000001453777734 PH L\$ 1  
0045034 77777777777777770000 00000000000000000000 00000000000000000000 0200000000020100000 B PH  
0045040 77777777777700000000 000000000000000000766 0324112000000001451 02000000000120100050 G CTIP L(B APH /  
0045044 20127434606361010611 04600450476140000004 0646045057040004212 72757717577205770000 PJ 1 AFID D/\* 5 DF-D/.D D7J D. E  
0045050 20115157071501421673 72307777661173754351 03270442125315055211 20173137326150041777 P1(.GMA7N X I 8(CWD7J\$ME)IPOY4Z /DO  
0045054 03210445705230043450 15776201010317044212 04000450616100046000 05610450602167311161 CQD+ )XD1/M AACOD7JD D/ D E D/ Q YI  
0045060 52310434435110000110 26363152342356120344 11525154344370122464 03360450662635320360 YD18(H AHV3Y)15,JC91)(-18 JT C3D/ V2ZC  
0045064 23657636302266613525 15316144440313045070 37614767100305045070 54610547500400041777 S 3XR 2UMY 99CKD/ 4 \* HCED/ = E+/D DO  
0045070 20745106115475054651 04000417776100046000 72645454717274545474 03060452120317042472 P (FI= E-(D DO D -- -- CFDIJCUDT  
0045074 63550514700002120552 0615042546726647777 43214112215147000064 03060425467770446000 EL BJE)FMDU- 9)NL U LCFDU- 9  
0045100 06140425462020266535 63320433715117000102 43214112215147000064 03020451062013043601 FLDU-PPV 2 ZDO (D AR8Q6JQ(+ CBD(FPKD3A  
0045104 03310451061266120644 03140425465061000000 51270000772343473150 15643202607266777770 CYD(FJ JF9CLDU-/ (W S8\*Y/M ZD  
0045110 27531112626130045121 03060451650332042274 43001545502005112650 54650200467157000000 W\$1J XD1QCFD( CZDR 8 M+/PEIV/- B - .  
0045114 04000452006100046000 56150717000000311101 12671201561377754610 03210425460400041776 D D) D ,MGO YIAJ JA,K -HCQDU-D DO  
0045120 77730451700044045165 52430000501344573140 03110451155042000072 52130000511220463660 D( 9D( 18 /K9.Y5CID(M/7 )K (JP-3  
0045124 51470001012261120411 03260451300330405130 51470000222043015440 72447700160334045112 (\* AAR JDICVD(XC1D(X(+ RP8A-5 9 NC1D(J  
0045130 63310030204516521122 03310451651521043666 04300451650613045174 62417777752112256450 Y XP+N)IRCYD( MOD3 DXD( FKD( 6 QJU /  
0045134 61330000020640045137 20452154467264000002 37662032604254663441 71447776767367477736 O BF5D14P+Q-- 84 PZ 7= 16 9 \* 3  
0045140 03260425467327411442 72110000004373076250 03240451740301045150 27242360136140000020 CVDU- W6L7 I 8 G /CTD( CAD(WTS K 5 P  
0045144 63514766200656045174 61600451473766056120 63560040004472246000 26242430606352043730 (\* PF,D( D(+4 E P, 5 9 T VITX 1D4X  
0045150 51170000715147000074 20114117746333315110 12771561505773165513 26635545506160045155 (D (+ PI60 OY(HJ M / . N KV +/ D  
0045154 73650556710400044722 52130000514300176210 50420000721260154610 36742511700006454740 E, D D\*R)K (8 O H/7 J M-H3 UI F+\*5  
0045160 22232366211075554610 43030207235110041767 15550217731261546000 70527777571167564650 RSS QH -H8CBGS(HDO M BO J = ) .I -/  
0045164 0400045446100046000 56150116012015713777 03210425467140000005 12664546100400041776 D D 9 D ,MANAPM 4 CQDTS 5 EJ +-HD DO  
0045170 56150734507170000011 11101031404517276710 12617137775461054750 04000417776100046000 ,MG1/ I1HHY5+OW HJ 4 = E+/D DO D  
0045174 56150712000000311101 36621546106100046000 70527777571377776000 52730000506100046000 ,MGJ YIA3 M-H D ) .K ) / D  
0045200 51200417635245000022 03120424157621120443 71303415012053512705 20352613004500612173 (PDD )+ RCJDTM QJD8 X1MAP\$(WEP2VK +P Q  
0045204 20230126120324042043 04000424236100046000 03010424235455043630 15056205235140041767 PSABVJCTDP8D DTS D CADTS= D3XME ES150D  
0045210 13777032504177612740 54750020004242346000 51270000226365020230 06160425465113000050 K 2/6 W5= P 771 (W R B8XFNDU-(K /  
0045214 06640425461571015420 56363137477244770014 03170425460334042546 43252741304356715112 F DU-M A=P,3Y4+ 9 LCODU-C1DU-8UW6X8, (J  
0045220 71600454502044646000 51600455141244146000 43766511004551115737 51200455142037363570 +5P9 ( D LJ9L 8 I +1.4(PD LP432  
0045224 72627767175462022151 03330425467165777761 71257777750306045365 20323157302034427757 0= BQ(CODU- U CFI\$ PZY.XP17 .  
0045230 63630061504254663574 03210452350312045233 04600452356156000004 06160455040750045504 /7= 2 CQD)2CJD)OD D12 , DFND DG/D D  
0045234 07450455046100046000 03340452466160006021 54231635200756045506 61600077770765045506 G+D D D C1D)- Q=SN2PG,D F G D F  
0045240 57151156150301045502 20607155105216000074 21506131124323011121 51200000571211521260 ,MI,MCAD BP H1N Q/ YJ8SAIQ(P ,J1J  
0045244 03110455001326220622 15220124460302042423 51200455122045226157 22652521400010221160 CID KVRFRMRAT-CBDTS(PD JP+R ,R UQ5 HRI  
0045250 5224000020204222516 03010452535411020130 03210454736100046000 10122201060331045473 )T PP7RUNCAD)\$=IBAXCOD= D HJRAFCDY=

0045254 20352636300326045267 71157777710311045257 76661030604526711707 03250452672014463610 P2V3XCVD) M CID). HX +V OGCUD) 8/QM=

0045260 71110000012050213151 63610030104254653146 03310452672014463610 15520202600616045443 I AP/QY( XH7= Y-CYD) PL-3HM)BB FND D

0045264 15620205067327620606 03320454433725273666 03320454436100046000 20430636404357120444 M BEF W FFCZD=84UW3 CZD=8 D P8F358.JU9

0045270 50220000442256515125 20322715577777520572 72330000006255777766 06500425460255045305 /R 9R,(IUPZHM. )E O F/DU-8 D\$E

0045274 03250453050400045503 0325045320400045324 03250453520400045324 03250453650400042546 CUD\$ED D CCUD\$LD D\$TCUD\$)D D\$TCUD\$ D DU-

0045300 03250425460400045370 03250453700400045415 03250454150400045425 03250425460400045330 CUDU-D D\$ CUD\$ D D=MCUD=MD D=UCUDU-D D\$X

0045304 03250454240400045330 43670227665012777733 15727201300307045477 15110721177001420102 CUD=TD D\$X8 BW /J 2M AXCGD= MIGQO A7AB

0045310 03310453136251000000 51270000642265615226 71500000640312045444 70517777550400045433 CYD\$K ( (W R )V / CJD=9 ( D D=O

0045314 76310225636052777713 37725031604532020503 11752435702170336117 22565231611175222301 YBU ) K4 /Y +ZBECI T2 Q O UR, ) Y RSA

0045320 03010454775117000112 54720676053771313555 54710030604544453160 12731547100400045444 CAD= (D AJ= F E4 Y2 = X +9+Y J M+HD D=9

0045324 03010454777155000007 73770635337217777676 03310453367150000062 04000454446100046000 CAD= G F20 O CYD\$3 / D D=9 D

0045330 03010454777155000001 73770542102211211312 63520033304254646000 033104550446367546000 CAD= A E7HRIQJ ) OX7= CYD D =

0045334 06150455046352346000 07460455040332045443 61600453370400045515 10244761500315045341 FMD D )1 G-D DCZD=8 D\$4D D MHT\* /CMD\$6

0045340 62560000007261000000 53160655156160045343 76540040004472246000 10422634305314043266 \$NF M D\$8 = 5 9 T H7V1X\$LDZ

0045344 15212430607222777737 03320455032012237615 15360542202065236725 54610205303677543201 MQTX R 4CZD CPJS MM3E7PP S U= BEX3 =ZA

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NUS 1-8J03T/R2B. NDS 1.4 STUDY DUMP.

0045350 54720030304550320272 12442040004550346000 43670237625012777734 15576723177777721314 = XX+/ZB J9P5 +/1 8 B4 /J 1M. SO KL  
0045354 50227777355012000057 20230156205022000055 20111726677001616116 03210453607255000040 /R 2/J .PSA,P/R PIDV A NCOD\$ 5  
0045360 03030453625110000043 20267201571131214333 03330453637255000020 53140201221110112615 CCD\$ (H 8PV A.IYQ8OCOD\$ P/LBARIHIVM  
0045364 20652546100400045503 51170001121366615510 5163000030305045503 67601135550400045444 P U-HD D C10 AJK HI /CED C 12 D=9  
0045370 76760217026267000060 76610223661273222201 61550000055012000026 13555045004537620157 BOB BS J RRA E/J VK /+ +4 A.  
0045374 03310454731567354620 04000454446100046000 03020454775012777733 15210547201160121606 CYD= M 2-PD D=9 D CBD= /J OMQE+PI JNF  
0045400 03020454445110041767 22207103115316113331 21344207140313045444 51100455131537043715 CBD=9(HDD RP C1\$NIOYQ17GLCKD=9(HD KM4D4M  
0045404 11112203444327020254 27303243436644415337 66444232421112176610 03130454050311045444 IIRC98WBB=WXZ88 96\$ 97271JD HCKD=ECID=9  
0045410 50127777352013015710 50120000266247770014 06400454442061412716 70527777135071000000 /J 2PKA.H/J V \* LF5D=9P 6WN 1 K/  
0045414 04000454336100046000 76310226632060311762 03250454220301045477 71500000570317045444 D D=0 D YBV P YO CUD=RCAD= / .CDD=9  
0045420 51170001123671313662 54710546200400045503 7130777760317045420 71500000610400045444 D ADJ Y3 = E-PD D C X COD=P / D D=9  
0045424 04000454336124246000 7150000040334045444 1500000422670743201 037004544450313312424 8PJ8 J79 / 5C1D=9 / 7V ZACGD=9\$KYTT  
0045430 43606543304325215636 74510114242230115552 54630124450400045222 53240511000005020430 8 8X8UQ,3 (ALTRXI )= AT+D DJR\$TEI EBDX  
0045434 75733710400301042423 20020544312260212070 22704526100000354761 03030452005343346000 4X5CAOTSPE9YR QP R +VH 2+ CCD1 \$81  
0045440 616000000046100046000 10644676615466154441 05600454410400045200 71500000436661043060 D D H = M96E D=6D D1 / 8 DX  
0045444 54130436062056676210 15716635400324045460 22304107112030253140 03304544602176041323 =KD3FP, HM 25CTD= RX6GIPXUY5COD= P KS  
0045450 36332367732073037772 15116364431537012151 12612207527150000040 54610205660336045460 30S P C MI 8M4AQ(J RG) / 5= BE C3D=  
0045454 71500000000303045460 51100455147231776717 03330454605214000000 54730103110660045222 / CCD= (HD L Y OCOD= )L = ACIF D1R  
0045460 12657126261377754630 06600417765615067606 66511065604550754750 51200417671071121130 J VVK -XF DD ,MF F (H +/ +(PDO H JIX  
0045464 15460000207331012232 15340114040303041777 2002214065334111303 (- P YARZMIALDCCD PBRLF\$1IKCK ZGQCNDO  
0045470 21773765600400045544 26157713577775176570 03030454336100046000 71500000440326045444 Q 4 D D 9VM K. D CCD=0 D / 9CVD=9  
0045474 50217777612043063640 20444436702216615621 03160454446100046000 71500000630400045444 /Q P8F35P993 RN ,QCND=9 D / D D=9  
0045500 6255777767225777773 04500454710302045471 71500000450400045444 13555666100400045444 U D/D= CBD= / +D D=9K , HD D=9  
0045504 7150000046160777775 43060040004034446000 71500000410400045444 / 7 8F 5 +99 / 6D D=9E DU= J  
0045510 04000423226100046000 10104000020200000000 00504000001460000000 00003567356735673567 D DSR D HH5 BB /5 L 2 2 2 2  
0045514 00000000000000001300 71340000005110045514 61400000020660045520 61400000026760646000 K 1 (HD L 5 8F D P 5 8  
0045520 72277776760332045525 23141211032010337271 03320455252120546000 03020455257170000100 W CZD USLJICPHO CZD UQP= CBD U A  
0045524 37217033204552522701 10277541102224263470 37712547100266000000 06530451762152276410 4Q OP+))WAHW 6HRTV1 4 U\*H8 FSD( Q)W H  
0045530 43066531351555012741 72617777434320615060 20566151722076612651 03000455357200777771 8F Y2M AW6 88P / P, ( P VIC D 2  
0045534 03100455437101000000 03050455377160000040 20666121166100046000 63670125450663045176 CHD 8 A CED 4 5P QN D AU+F D1  
0045540 53336360042000615232 3660112752045254730 37664460006100046000 13777546100400041776 \$0 DP 123 IWUP+U\*X 9 D K -HD DD  
0045544 5215000020207232311 03230455614320276310 13612215075461020357 63450233435120041757 JM PP ZSICSD 8PW HK RMG= BC. +B08(PDO.  
0045550 12623761705462020507 61300455531366663750 27006040004241746000 62710000000337042175 J 4 = BEG XD \$K 4/W 5 76 C4DQ  
0045554 04000447416100046000 51270000225235000022 26642264530745045560 03170417770754041777 D D\*6 D (W R)2 RV R \$G+D CODD G=DD  
0045560 54110637500400042056 13666270060337042175 03170417770321041777 04000447416100046000 =IF4/D DP,K FC4DQ CODD CODD D D\*6 D  
0045564 52130000502054413515 52130000511555046000 03150441100331041776 62610000000460041776 JK /P=62M1K (M D CMD6HCYDD D DD  
0045570 04610451764360136013 62610000020663045176 54451126612270454241 53700107222044753701 D D( 8 K K BF D1 =+IV R +76\$ AGRP9 4A  
0045574 54610137770324041776 51400417675313113441 21422134420314041776 36131531107160000003 = A4 CTDD (5D0 \$K116Q7Q17CLDD 3KMYH C  
0045600 12616546100400041776 76570760700400042107 15724635005472063710 51370000045142000004 J -HD DD .G D DQGM -2 = F4H14 D17 D  
0045604 43230113233774356371 54740564211112337741 55421567215130000106 51332154442114437434 8SAKS4 2 = E Q1JO 6 7M Q(X AFMOQ=7QL8 1  
0045610 55341532113611226363 04570456130560045613 03340456156160000006 50437777732776337664 1M2I3IR D.D,KE D,KC1D,M F/8 W 0  
0045614 13222164445463154730 43652204222062211662 16664546200400042112 51200456226337022132 KRQ 9= M\*X8 RDRP QN N +-PD DQJ(PD,R 4BQZ  
0045620 03210423235127000016 27632546200400045601 30400460006100046000 63550430306265000020 CQDSS(W NW U-PD D,AX5D D DXH P  
0045624 06150425460664042546 07600425465040045653 56335202441063354331 53640362731130320330 FMDU-F DU-G DU-/50, \$,01B9H 28Y\$ C SIXZCX  
0045630 27603537413711354331 51620000161120310733 20230547713711254331 51220000041073354331 W 2464128YI NIPYGOPSE+ 4IU8Y(R DH 28Y  
0045634 03310425465412111202 11101366231130354771 37113543315467110733 11303102443711354331 CYDU=-J1J8IHK SIX2+ 4128Y= IGOIXYB94128Y  
0045640 20130033104254620206 15330112025476112723 43663613004564654771 54331153301232373040 PK OH7= BFMOAJB= IWS8 3K + \*-01\$XJ24X5  
0045644 10733216015477154331 03160456440400042150 76310434525120000106 20351127351133554750 H ZNA= M8YCND,9D DO/ YD1)(P AF2IW2IO +/  
0045650 21522154547657036724 51720000170313042110 51620000120400042110 00000456550000045655 Q1Q=- .C T1 OCKDQH( JD DQH D, D,  
0045654 00000450240000045024 00004154000576000000 00000000000000000001 00777700000000045655 D/T D/T 6= E A D,  
0045660 70070000000000000000 00000000000000000000 0000000201071000000 00000000000000000000 G PH  
0045664 00000000001760000576 000000000000000001232 00000000000000000000 00000012300000001232 D E JZ JX JZ  
0045670 000000000040000000277 00000000000000000000 00000000000000000471 010115000000050000577 D BW E D AAM E E  
0045674 000000000000000000577 7341021416130045701 03040445462140166600 03040445466130045727 E 68LL XD.ACDD+-Q5N CDD+- XD.W  
0045700 04000445466100046000 15235430705443156160 21330214301533516454 63430200106323620302 D D+- D MS=X -8M QOBLXMO1 = 8B H S CB  
0045704 63540377234347063370 63740137776647413666 06400457076777446000 20704155106677112665 =C S8\*FO A4 \*63 F5D.G 9 P 6 H IV  
0045710 15514206045411112775 05700457074766647777 63565633730704045705 763104306450430000005 M(7FD=I1W E D.G\* ,0 GDD.E YDX /8 E

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0045714	13777043004571512773	20773045004571612773	15240207700302045723	66711552474346121214	K 8 + (W P X + + W MTBG CRD.S M)*H-JJL
0045720	61300457212070443072	21214207731562015124	6177777760312045733	76310131117651066400	XD.QP 9X Q07G M A(T CJD.O YAYI (F
0045724	61500442320307044543	20304541311261320751	54610547500400044232	21330613004573215335	/D7ZCGD+8PX+6YJ ZG(= E+/D D7Z00FK + Q12
0045730	43461632364307213777	66710040004573546000	20744547500400044232	21102624600006053116	8-NZ38GQ4 5 + = P +/D D7ZQHVT FEYN
0045734	22641032604575515124	77362151142030263410	15114733311561063510	05700457400545045752	R HZ + ((T 3Q(LPXV1HMI*OYM F2HE D.5E+D.)
0045740	76150625600007020602	63411211025311622551	63560206011155363565	75612221511166521160	MFU GBFB 6J1811 U( +BFAI 32 RQ(I I
0045744	03260457550331045736	05700457515013000003	77562201602050215114	37535473113761563430	CVD. CYD.3E D.1/K C ,RA P/Q(L41= I4 ,1X
0045750	03260457550541045755	02330000006100046000	50130000052015246000	03210457405013000001	CVD. E6D. B0 D /K EPMT CQD.5/K A
0045754	20102033104574046000	76310127370233000000	0004313200000000436	00000000000000000001	PHPOH+ D YAW480 DYZ D3 A
0045760	00777700000000045756	70070000000000000000	00000000000000000000	00000000000000000000	D., G -A
0045764	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	N -A
0045770	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	D+
0045774	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	E G
0046000	00000005000000000000	70070000000000000000	00000000000000000000	00000000000000000000	D.
0046004	00045776000000000000	00000000000000000000	00000000000000000000	00000000000000000000	D2SD N G =R B DPA D N A
0046010	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	=TD2 =Q X A =Q 1
0046014	00000000000000000000	00000000000000000000	00000000000000000000	00000000000000000000	* - E EX 01
0046020	00777700043553046016	70070000005422000002	00000000010066000000	00000000005421000034	ICOPPU EXPACK DPA
0046024	00000000005424043570	00000000005421003000	00000000000000000000	000000000000000001734	D 4 A D2SD 4 G =Z B AG, J
0046030	77777777777777774777	00000000004600000005	00000000000000000005	30000000000000000000	=Y 1 =ID2 =Y 1 T T
0046034	00000000000000000000	00000000000000110333	20202555053020010313	00042001000000000000	6% 8 II-PPU EXPACK
0046040	00000000046037000001	00777700043553046037	70070000005432000002	00000000010756000000	1 NN OF A D G N+
0046044	00000000005431000034	00000000005434043570	00000000005431003400	000000000000000001200	=6 C OK X 17 A LI C
0046050	00000000000000004153	77777777777777774377	00000000006100000024	000000000000000000024	PPU EXPACK ND 03 A D A
0046054	34000000000000000000	00000000000000000000	00000000000000111154	20202555053020010313	G N9 -/ - 70 26 V
0046060	00001616001706000000	00000000000000000001	00777700000000046060	70070000000000000000	- 6 70PPU EXPACK DPA D R A
0046064	00000000000000000000	00000000005441000000	00000000000000000000	00000000000000000000	/D R G DR DO 9V 9 = 9 F-
0046070	00000000000000000000	00000000000000006103	0000000000000033136265	7777777777777777000000	= 5B 9 PPU EXPACK DZT A
0046074	46500000000000000000	46700000000000000000	00000000003000524265	00010060551411006103	D 8 A = D 8 G D-500 PR W
0046100	20202555053020010313	00001604001736000000	00000000000000000001	00777700000000046101	= A D*0 / P
0046104	70070000000000000000	00000000000000000000	00000000005451000000	00000000000000000000	Z/ W P AA PPU EXPACK
0046110	000000000001644007700	00000000000000000000	00000000000000004217	00000000000032415526	- DPA P D A /D G DR DO A )
0046114	7777777777777777000000	46500000000000000000	46700000000000000000	46570041710066004217	9 9 N9 8 5
0046120	46770041710066004217	20202555053020010313	00042001000000000000	00000000046122000001	PPU EXPACK DPA D E A D2SD E
0046124	00777700000050046122	70070000042273041777	00000000004426776044	00000000005461004400	G J B A I 1 LD2 Y
0046130	00000000000050043414	00000000005461004400	00000000000000000000	00000000000000000646	I - J 6-
0046134	00000000000000005460	40020000000000000000	00000000000000000000	00440000000000000000	\$ 2 2- IGCPPU EXPACK DPA D V A
0046140	00000000000000000000	00400000000000000000	20202555053020010313	000432240000000000100	/D V G DR DO 9V 9 Q 9 GU
0046144	00000000046143000001	00777700005470046143	70070000044640041777	00000000002022777727	P5A 9 PPU EXPACK C. CO
0046150	00000000005471776001	00000000044733776060	00000000000077005000	00000000002022777727	A 5 D + G Y
0046154	000000000000000003250	77777777777777777727	00000020000000000000	00000000000000000000	
0046160	00460000000000000000	00000020000000000000	00000000000000000000	00010100000000000000	
0046164	00042001000000000000	00000000046164000001	00777700000050046164	70070000042273041777	
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0046224	000000000000000110703	20202555053020010313	00042001000000000000	00000000046226000001	
0046230	00777700000050046226	70070000042273041777	00000000004426776044	00000000005521004400	
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0046240	00000000000000005520	40010000000000000000	00000000000000000000	00440000000000000000	
0046244	00000000000000000000	00400000000000000000	20202555053020010313	00035765032175000000	
0046250	00000000000000000001	00777700000000046247	70070000000000000000	00000000000000000000	
0046254	00000000005531000000	00000000000000000000	00000000036422036427	00006550255521131736	

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0046260 000000000000000036416 17315054000000000000 00000000000000000001 17174000000000000000 C NOY/= A005  
0046264 17245055003615055611 17326476505462761160 000000000000000003264 20202555053020010313 OT/ 3ME,IDZ /- I Z PPU EXPACK  
0046270 00042001000000000000 00000000046270000001 00777700000007046270 70070000044653041777 DPA D A GO G D-SDO  
0046274 00000000005226000000 00000000005541041777 0000000000050041776 00000000005237004600 IV 6DD /DO 14 -  
0046300 000000000000000004600 00000000000000001615 0000000000000072462 00000040000000000000 - NM GT 5  
0046304 77777700000000000000 00000000000000003456 41000610110061070100 21303634301271523042 1,6 FHI GA QX31XJ JX7  
0046310 20202555053020010313 00043224000000001006 00000000046311000001 00777700041757046311 PPU EXPACK DZT HF D I A DO.D I  
0046314 700700000000060000003 00000000010066000000 00000000076001041777 00000000000620041776 G C A G ADD FPD  
0046320 00000000041757000600 00004000000000000000 000000000000043224 00000000000000000000 DO. F 5 DZT  
0046324 00000000000000000000 00020000000021660155 00000000000000000000 20020000000021660155 B Q A PB Q A  
0046330 00000000000000000000 20202555053020010313 00042001000000000000 00000000046332000001 PPU EXPACK DPA D Z A  
0046334 00777700004633046332 700700000000060432600 00000000000061776000 000000000432601041777 D OD Z G 8V 8VADD  
0046340 00000000000420041776 00000000005237000400 00004000000000000000 0000000000000020052 DPDO 14 D 5 B J  
0046344 00000000000000432600 00000000000000002400 0000000000011660714 00000000000000000000 8V T I GL  
0046350 20000000000011660714 21303634301271523042 20202555053020010313 00042001000000000000 P I GLQX31XJ JX7PPU EXPACK DPA  
0046354 000000000046353000001 00777700046354046353 7007000000050432600 00000000005572072015 D \$ A D -D \$ G /8V GPM  
0046360 00000000432601072126 00000000005542042050 00000000005571004600 00000000000000004600 8VAGQV 7DP/ -  
0046364 00000000000000020053 0000000000000432600 00010000000000000000 77000000000000000000 B \$ 8V A  
0046370 00000000000000000000 21012023000100000145 00005540000000000000 20202555053020010313 QAPS A A+ 5 PPU EXPACK  
0046374 00042001000000000000 00000000046374000001 00777700043546046374 70070000000560277772 DPA D A D2-D G ,B  
0046400 00000000014236000004 00000000005601000034 00000000005604043554 00000000005601002400 A73 D ,A 1 ,DD2= ,A T  
0046404 00000000000000000401 00000000000000000404 0000000000000120000 00000000042700000021 DA DD J DW Q  
0046410 00000000000000000021 24000000000000000000 00000000000000000000 0000000000000040127 QT OAW  
0046414 20202555053020010313 00001542005313000000 00000000000000000001 0077770000000046415 PPU EXPACK M7 \$K A D M  
0046420 70070000000000000000 00000000000000000000 00000000005611000000 00000000000000000000 G ,I  
0046424 00000000001514777473 14732340254565307474 03354117004766472126 00000000000000000002 ML L S5U+ X C260 \* +QV B  
0046430 00000000000000000001 000000000000000001727 00000000000000777777 34317027527444546165 A DW 1Y WJ 9= X  
0046434 30742710522456054037 20202555053020010313 00042001000000000000 00000000046436000001 X WHJ,T,E54PPU EXPACK DPA D 3 A  
0046440 00777700041757046436 70070000000060000003 00000000010066776000 00000000432601041777 DO.D 3 G C A 8VADD  
0046444 00000000000620043570 00000000005237000600 00004000000000000000 00000000000000005605 FPD2 14 F 5 ,E  
0046450 00000365040000000000 0000000000000002400 00020000000021660155 00000000000000005601 C D T B Q A ,A  
0046454 20020000000021660155 21303634301271523042 20202555053020010313 00042001000000000000 PB Q A QX31XJ JX7PPU EXPACK DPA  
0046460 00000000046457000001 00777700005630046457 70070000044652041777 0000000000061777743 D . A ,XD . G D-JDD 8  
0046464 00000000005631000022 00000000044733044152 00000000000077002400 00000000002000000000 ,Y R D\*0D6J T P  
0046470 00000000000000016640 7777777777777777743 00000000002000000000 0000000000000002400 A 5 B P T  
0046474 00600001000000000000 00000000002000000000 00000000000000000000 03111700107300000340 A P CID H C5  
0046500 01002255500014151006 06200200154116066010 30251006351210633511 10633510020015411606 A R / LMHFFPB M6NF HXUHF2JH 2IH 2HB M6NF  
0046504 62103045120204365000 11001601050630201277 34050200150350001314 22007477230003005400 HX+JBD3/ I NAEFXPJ 1EB MC/ KLR S C =  
0046510 13141402342420000000 05043044101506031404 35240100130030241214 10750437340130442200 KLLB1TP EDX9HMFCLD2TA K XTJLH D41AX9R  
0046514 01741140050520006740 54001214304423000640 04122300060004073044 22006000530114053444 A ISEEP 5= JLX9S F5DJS F DGX9R \$ALE19  
0046520 30431374530114103443 30450526010013001404 34245000141510060616 02001541160660301400 X8K \$ALH18X+EVA K LD1T/ LMHFFNB M6NF XL  
0046524 34303431307134320200 15411606623030451377 04031007062014003410 34113412306012373413 1X1YX 1ZB M6NF XX+K DCHGFPL 1H11JX J41K  
0046530 30613414020015411602 62101601621050001405 05073020127734053021 02001526362412772300 X 1LB M6NB HNA H/ LEEGXPJ 1EXQB MV3TJ S  
0046534 00003424305704026220 14013544305205053044 22001777344402001541 62401401341130251075 ITX.DB PLA29XIEEX9R Q 19B M6 5LAI1XUH  
0046540 05031404030610760503 14020302140055001377 10635500137630776311 13731400341214600200 ECLDCFH ECLBCBL K H K X IK L 1JL B  
0046544 03360100011414440200 03360372002000525024 00000000001000760022 00000000000100200030 C3A ALL9B C3C P J/T H R A P X  
0046550 10300000007400740000 00005400142420305313 02000476000030452300 10000505020034131401 HX = LTP2CKB D X+S H EEB IKLA  
0046554 03113044101307031004 03021005120111015400 32332000323434152033 04060200047614003457 C1X9HKGCHDCBHEJAIA= ZOP Z1IMP0DFB D L 1.  
0046560 01001231302204053021 34221401342350001501 54001336140155001377 01001231031701001502 A JYXRDEXQIRLA1S/ MA= K3LA K A JYCOA MB  
0046564 30053411146234121414 34131457020003360364 01001516307560103011 12400371010015253412 XE1IL 1JLLIKL.B C3C A MNX HXIJ5C A MULJ  
0046570 30053411140334131457 02000336036501001540 05031006315510063154 03700200056601001552 XE1ILC1KL.B C3C A M5X\$HFY HFY=C B E A M)  
0046574 30766010301004701477 17010576037001001564 50000103341030776204 61701600140301001416 X HXHD L OAE C A M / AC1HX D N LCA LN  
0046600 0000000000402040044 43000050640000546400 00605700007057000200 00000204000242100000 57D 98 / . . B BD 87H  
0046604 42140002422400024230 00004234000202400104 02500002226000002264 0002060000006404204 7L B7T B7X 7L BB5ADB/ R S7 BF F57D  
0046610 00005523207124240310 15240311162403110000 17055523214024240310 15240311162403110000 SP TICHMTTCINTCI OE S05TTCMTTCINTCI  
0046614 21525523202315240311 16240311000020505000 14151006061114666010 30713412020015411606 Q) SPSMTTCINTCI P// LMHFFIL HX 1JB M6NF  
0046620 62101414342401001165 14003457200020003420 304513770411130452200 37772300050004030100 HLL1TA I L 1.P P 1PX+K DIX+R 4 S E DCA

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0046624 12310200221605041406 01001416304434302000 32343415203302060200 04760306140034571410 JYB RNEDLFA LNX91XP Z11MPOBFB D CFL 1.LH  
0046630 01001416300405152000 32343415203304060200 04761400345714160100 14163030344420000307 A LNXDEMP Z11MPODFB D L 1.LNA LNX19P CG  
0046634 54002056305717016010 01002563304513732300 64000503010014622300 62002200377705072035 = P,X.OA HA U X+K S ECA L S R 4 EGP2  
0046640 03070200047601001165 20350306037130452300 64000503010014622300 01002200377705030200 CG8 D A I P2CFC X+S ECA L S R 4 ECB  
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0046650 34471063344601002113 30461014334704662377 77770567304510060605 20006400344503603045 1+H 1-A QKX-HLO+D S E X+HFFEP 1+C X+  
0046654 13141114344503473035 04052035030602000476 20350304020004760200 15411602601016016210 KL1L1+C\*X2DEP2CFB D P2CDB D B M6NB HNA H  
0046660 01001300010021623005 34113006341214023413 14570200033630110463 15003401140002000336 A K A Q XE1XFLJLB1KL B C3XID M 1AL B C3  
0046664 30741620601030110551 37010666035014000100 22151440340140011071 04201745066640011277 X NP HXIE(4AF C/L A RML51A5AH DPQ+F 5AJ  
0046670 04151745066136011143 05633043107117450753 03514001054736011143 05733043107105413040 DMO+F 3AI8E X8H Q+G+C(5AE+3AI8E X8H E6X5  
0046674 03401400345734351430 34263053101434471063 1237345020015416040 16016030160360633052 C5L 1.12LX1VX+HL1+H J418B M6 5NA XNC X)  
0046700 10063347344710633446 30331014127734523033 12373460303434613052 17020605303122003777 HF0+1+H 1-XOHLJ 1)X0J41 X11 XJOBFEXYR 4  
0046704 03023031540014153053 10143354170207061606 31521071325607041400 01001416200016003425 CBXY= LMX+HLO=OBGFNFY)H Z,GDL A LNP N 1U  
0046710 30441204107634453044 17400734140235254025 05052035030102000476 33442200077405645025 X9JDH 1+X905G1LB2U5UEEP2CAB D O9R G E /U  
0046714 00013445137704133043 12741174050530451314 11103445020021143044 12025500132130435400 A1+K DKX8J I EEX+KL1H1+B QLX9JB KQX8=  
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0046724 07743444140460201400 34223063322007133063 32210610306360101601 34573020342203221402 G 19LD PL IRX ZPGKX ZQFHX HNA1.XPIRCRLB  
0046730 35206010332105153044 23000110050720350312 02000476010025630100 17253010045533400553 2P HQQEMX9S AHEGP2CJB D A U A DUXHD 05E1  
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0046740 62103057341414003413 14560200033630110406 14003457141001001416 30576020170160103024 HX.1LL 1KL,B C3XIDFL 1.LHA LNX. POA HXT  
0046744 22007700230000005400 13143014107111125400 11003013127755003171 12040430304513770511 R S = KLXLH IJ= I XKJ Y JDDXX+K EI  
0046750 30742100010160013001 10170613031510711164 0412117404101101257 1570404140501001416 X Q AA AXAHOFKCMH I DJI DHIHJ.I.UOLEA LN  
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0046764 40251006074730451202 04132000166354003132 30131201042514150100 14163045137704171071 5UHFG+X+JBDKP N = YZKKJADULMA LNX+K DDI  
0046770 12571157040530452300 10000503010014252000 16755400313230520503 01003047303023005524 J.I.DEX+S H ECA LUP N = YZLIECA X+XXS T  
0046774 04072300030004030100 30221401340130442200 07742300011005052000 02005500301130221067 DGS C DCA XRLA1AX9R G S AHEEP B XIXRH  
0047000 11010407110204041107 05151420164021004002 34303001100635303024 10641002353030571701 IADGIBDDIGEMPLN5Q 5B1XXAHF2XXTH HH2XX.OA  
0047004 34630200154116016230 16036263500014151006 06110200154116066030 30333134040236350200 1 B M6NA XNC / LMHFFIB M6NF XXOY10B32B  
0047010 15411602600116016010 30143465306612373466 10143367170110713256 0637301312373463266 M6NB ANA HXL1 X J41 HLO OAH Z,F4XKJ41 Z  
0047014 10143165326706273064 32601014316532610721 30053463300412373462 32661014316332670607 HLY Z FWX Z HLY Z GQXE1 XDJ41 Z HLY Z FG  
0047020 30623260101431633261 06041402010014162000 16513403400323001523 22003777040714023503 X Z HLY Z FDLBA LNP N(1C5CS MSR 4 DGLB2C  
0047024 40030567010032145000 31362300152305353052 17020607500014152200 73775400141550001100 5CE A ZL/ Y3S MSEX2IOBFQ/ LMR = LM/ I  
0047030 05211400123004163020 12773405302134060200 21630404140401001416 54001405400310060606 EQL JXDNXPJ IEXQ1FB Q DDLDA LN= LE5CHFFF  
0047034 50030001340101010000 50030001233500000200 04760000000000000000 35030100322700000062 /C A1AAA /C AS2 B D 2CA ZH  
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0047044 40014425500100015425 00012200377723000500 05153044124010732300 71025400256520000400 5A9U/A A=U AR 4 S E EMX9J5H S B= U P D  
0047050 54002567031023000300 05052000710054002565 01002373010033205000 31362200377723001605 = U CHS C EEP = U A S A OP/ Y3R 4 S NE  
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0047060 45000114100001200500 01300600014045000144 45000150460001604500 010746000017446000300 + ALH APE AXF A5+ A9+ A/- A+ A - A - C  
0047064 05000330060003404500 03504600037046000000 01003412500031362300 15230571305717016010 E CXF C5+ C/- C - A 1J/ Y3S MSE X.OA H  
0047070 30131201056330141071 34013022040750013547 04533401010100000100 12311400340734233422 XKJAE XLH 1AXRDG/AZ+D\$1AAA A JYL 1G1S1R  
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0047110 13140100345634440000 34443444000000000000 00000000350635060000 00003444344401003566 KLA 1,19 1919 2F2F 1919A 2  
0047114 30570404170161736766 14276170700030065400 67753007540067761400 54006765540067642000 X.DDDA LW XF= XG= L = P  
0047120 67640200056301003566 35030200160000000121 00000000140034240200 22321071050730441074 B E A 2 ZCB N AQ L 1TB RZH EGX9H  
0047124 11020403010011651400 34353425304410741277 11010405203503030200 04763020127734053022 1BDCA I L 121UX9H J IADP2CCB D XPJ 1EXR  
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0047154 32341701060321000000 21777677075510710306 17011015340310053203 34033625325606412000 Z10AFCQ Q G H CFOAHMICHEZC1C3UZ,F6P  
0047160 67640200056006030200 15651056341650005764 05030100174734071006 06051071340614003407 B E FCB M H,1N/ ECA 0+1GHFFEH 1FL 1G  
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0047200 30013202341010023110 21006766540022033033 10143134210000006310 67663002050421000000 XAZB1HHBYHQ = RCXOHL1Q H XBEOQ  
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0047240 54002126010022511013 07121011000000000000 35030300242200000175 01002427200024523401 = QVA RIHKGJHI 2CC TR A A TWP T11A  
0047244 14023501400105051414 34240100110233441303 05655001000134010101 00000001247300202526 LB2A5AEELL1TA IB09KCE /A A1AAA AT PUV  
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0047264 17225400177514043424 34353625200067640200 35435400261604243033 34623034346302002232 OR= O LD1T123UP B 28= VNDTX01 X11 B RZ  
0047270 34033201060430033401 04100200225214003416 30010100211420000000 10710417560026621237 LCZAFDXCLADHB RJL INXAA QLP H DO, V J4  
0047274 05030200056636252000 67640200354354002616 03565000676404075000 14141274117405120351 ECB E 3UP B 28= VNC,/ DG/ LLJ I EJCC  
0047300 14103424500067650504 37251414342401001722 00002000676154002131 54002161540021721502 LH1T/ ED4ULL1TA OR P = QY= Q = Q MB  
0047304 55002015200001005500 20205000241754002070 50002420540020715000 24215400207214005400 PMP A PP/ TO= P / TP= P / TQ= P L =  
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0047314 25060100251002002252 14175400676614005400 67653401341601002110 20003107540022233052 UFA UHB RJLO= L = 1A1NA QHP YG= RSX)  
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0047444 10723402107054003057 02001517051214025400 25623002107617760603 55002511300205263044 H 1BH = X.8 MOEJLB= U X8H O FC U1XBEVX9  
0047450 10740503010013001207 11010473110304145000 23600511302412061102 04055400233754002340 H ECA K JGIAD ICDL/ S E1XTJF1BDE= S4= S5  
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0047460 54002426207773775500 24302000004755002433 50004121540024413044 10120617101012700414 = TVP TXP \* TO/ 6Q= T6X9HJFOHHJ DL  
0047464 30241302110234242000 76775400114430715400 11460100222401001766 50001100057330741621 XTKB1B1TP = I9X = I-A RTA O / I E X NQ  
0047470 60011645601030141066 05173004127734011404 60103013101131011003 31141605601030141066 AN+ HXLH EOXDJ 1ALD HXKH1YAHCYLNE HXLH  
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0047510 17660000000000001000 00002000000050000001 00000005000001000000 H P / A E H LB1JA  
0047514 21403006107112771102 04671101046514060364 01002153200037775400 67641477540067653057 Q5XFH J 1BD IAD LFC A QSP 4 = L = X.  
0047520 04065400677717016170 67663005540067733006 54006774142761707000 DF= OA XE= XF= LW , L 1GNA  
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RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.41. PAGE 35  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0047534 35463044217775730710 04031014060520350305 02000476020017673023 34070200306230451377 2-X9Q GHDCHEP2CEB D B O XS1GB X X+K  
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0047560 30143463301334623233 10143114323406032100 00003235075510710306 17011015340310053203 XL1 XK1 ZOHLYLZ1FCQ Z2G H CFOAHMICHEZC  
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0047620 34471063540030573446 30766010301005740200 05663047230077775400 26423046230021775400 1\*H = X.1-X HKHE B E X+S = V7X-S Q =  
0047624 26413647106330565000 01061002340210630406 50000106100134021063 34013246070510143102 V63\*H 2-/ AFHB1BH DF/ AFHA1BH 1AZ-GEHLYB  
0047630 32470615300134462300 21775400264130023447 23007777540026423025 10025500137710635500 Z\*FMXA1-S Q = V6XB1+S = V7XUHB K H  
0047634 13763077637013731401 34113412146002000336 50001415100606200200 15411606601030251006 K X K LA11JL B C3/ LMHFFB M6NF HXUHF  
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0047770 23002100540024720321 56002466106355002465 30661014316717015400 25351063230020005400 S Q = T CQ, T H T X HLY OA= U2H S P =  
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0050020 14030706101431145200 14040613141654001400 50001403321310145100 14043214540014041063 LCGFHLYL) LDFKLN= L / LCZKHL) LDZL= LDH  
0050024 54001403560013340100 37720303030407120610 03120317010041253057 04041701617367661427 = LC, K1A 4 CCGDGJFHCJCOA 6UX.DDOA LW  
0050030 61707000300654006775 30075400677614005400 67655400676420006764 02000563010041250000 XF= XG= L= = P B E A 6U  
0050034 35030500436200000034 01004367200044103401 140235014000105030100 11023344130305675001 2CE 8 1A 8 P 9H1ALB2A5AECA IB09KCE /A  
0050040 00013401010100000204 44150000140054003701 56003603500041175400 26442000010055002443 A1AAA BD9M L = 4A, 3C/ 6D= V9P A T8  
0050044 50004122540026432000 20005400237214025500 23705000236005030100 13003064100631551006 / 6R= V8P P = S LB S / S ECA K X HFY HF  
0050050 31656170747301004367 50004120540025572000 23655400265050006765 34021002350250026777 Y A B / 6P= U.P S = V// 1BH8ZB/B  
0050054 54007477500267661117 04030100256330020421 20004524540026505400 26520100256320002365 = /B 1ODCA U XBDOP +T= V/= VIA U P S  
0050060 54002650200023615400 26520200372501002627 17010706020037731401 01001416210005013402 = V/P S = V1B 4UA VNOAGFB 4 LAA LNO EA1B  
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0050070 35030600322700000242 01003234010045755000 15015400133630063422 30073423500014151006 2CF ZW 87A Z1A + / MA= K3XF1RXG15/ LMHF  
0050074 06603045137704063022 04043021020045655000 14240405020015411606 03021466603030371006 F X+K DXRDXQB + / LTDEB M6NFCBL XX4HF

RA -	E,35700,76000.	EXPRESS 11	DSOI - V2.0	79/10/30. 15.19.41.	PAGE 36
0000000	CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.	

0050100	34321063343130361006	35311063343002001541	16066230010032343033	34363034343730220406	12H 1YX3HF2YH 1XB M6NF XA Z1X013X114XRDF
0050104	30213406020043500604	14220100141630451202	04053024130211023424	30333436303434370100	XQ1FB 8/FDLRA LNX+JBDEXTKB181TX013X114A
0050110	32443032124005423044	10120604101012700571	30331237343310143334	17020705160210713256	Z9XZJ5E7X9HJFUHHJ E X0J410HLO10BGENBH Z
0050114	07041424010014163022	05053402140134030305	30213406020044573033	10063155100631346010	GDLTA LNXREE1BLA1CCXQ1FB 9.XOHFY HFY1 H
0050120	30023413343630033414	34373033100631551006	31346210010032443447	10633446300604303321	XB1K13XCIL14XOHFY HFY1 HA Z91*H 1-XF0X0Q
0050124	05043007110104233707	06050200410517013407	30461014314717010553	14003424140255001377	EDXGIADS4GFEB 6EUA1GX-HLY*0AESL 1TLB K
0050130	010032401450134440366	34471063344630060470	33210504300711010463	02003732140455001377	A Z5L/19C 1*H 1-XFD QVEDXGIAD B 4ZLD K
0050134	10635500137630451210	04043001100606533046	10143147170105433001	10641002160434240100	H K X+JHDDXAHFF1X-HLY*0AEXAH HBNDITA
0050140	32403006050414143424	03103045121434241114	05130200445714015500	13771063550013760100	Z5XFEDLL1TCHX+JL1TILEKB 9.LA K H K A
0050144	05105000010634252000	67640200442010710524	50006764510067650432	30451210040450006764	Z5/ AF1UP B 9PH ET/ ( DZX+JHDD/
0050150	05113046101431471701	04173447106334461401	10025500137710635500	13763725040301003567	EIX-HLY*0A001*H 1-LAHB K H K 4UDCA 2
0050154	02000566307416206010	30111714062330250503	010035641307434245000	676405100141434245000	B E X NP HX1OLF5XUECA 2 LD1T/ EHLL1T/
0050160	67650403141034240100	32401404010014165000	14151006060630521703	07030200412402001541	DCLHITA Z5LDA LN/ LMHFFFX10CGCB 6TB M6
0050164	16046010140134123013	12373413020015411604	62103044124004030100	14623424140155001377	ND HLA1JXKJ41KB M6ND HX9J5DCA L 1TLA K
0050170	01003240010037313006	34223007342330350415	15023535503545753406	50354576340122003777	A Z5A 4YXF1RXG1SX2DMMB22/2+ 1F/2+ 1AR 4
0050174	34070354300633210505	30071101340104453007	05030200410521776704	06021400340754004072	1GC=XFOQEEEXG1A1AD+XGECB 6EQ DFBL 1G= 5
0050200	30065400407533210507	30070505140134075400	40722000676402004420	10710523300654354575	XF= 5 OQEGXGEELA1G= 5 P B 9PH ESXF=2+
0050204	30075435457650006764	05105000676504262000	40005535457614023535	30073323050430063322	XG=2+ / EH/ DVP 5 2+ LB22XG0SEDXFOR
0050210	04053007041001004012	30011071050315023535	02000566307416206010	30111714061120000000	DEXGDHA 5JXAH ECMB22B E X NP HX1OLF1P
0050214	34072000407434060100	37371404010014160100	41043006340330213303	33033406020045223303	1GP 5 1FA 44LDA LNA 6DXFICXQOCOC1FB +ROC
0050220	05725000010603610100	41230200154116076010	30131377100633120465	10063467106312373466	E / AFC A 6SB M6NG HXKK HFOJD HF1 H J41
0050224	30131237346210143314	34631702060301004331	16021006316610143167	10713256063014666010	XKJ41 HL0L1 OBFCA 8YBNHFY HLY H Z,FXL H
0050230	14003401340230623101	10063155100631633102	62103602106335013366	05633002336705603006	L 1A1BX YAHFY HFY HB H3BH ZAO E XBO E XF
0050234	05030100412302004457	17010506300205043003	11010465020037321400	34255400676420006764	ECA 6SB 9.OAEFXBEDXCIAD B 4ZL LU= P
0050240	02004420041136253066	10143167320106043067	34010430306210063155	10063163630167663001	B 9PDI3UX HLY ZAFDX 1ADXX HFY HFY A XA
0050244	35631063356230661014	31673201346710633466	30011071040301004235	02000566302504075500	2 H 2 X HLY ZAI H 1 XAH DCA 72B E XUDG
0050250	13771063550013760332	30441240051330576020	20000100550037233022	34063023340702001541	K H K CZX9J5EXX. PP A 4SXRIFXS1GB M6
0050254	16016010301122003777	34110200154116016210	01004123010043473006	34003000340610752100	NA HXIR 4 1IB M6NA HA 6SA 8*XF1 X 1FH Q
0050260	77776010300612033401	50310010340010060617	15005100010635370655	36373736065250000106	HXFJCIA/A H1 HFFOM \$ AF24F 3443F1/ AF
0050264	31373407010043471071	32370773303604671500	03673001010044173403	02000560060302001565	Y41GA 8*H Z4G X3D M C XAA 901CB E FCB M
0050270	50030001340140030505	34015003000104573407	10060653107134061400	34074003040350030001	/C A1A5CEE1A/C AD.1GHFF1H 1FL 1G5CDC/C A
0050274	34010100441701004456	14003403340234003006	1075210077760103006	12033401500100101006	1AA 90A 9.L 1C1B1 XFH Q HXFJCIA/A MHF
0050300	06121071340650000106	35031063305236000353	10713407350310633502	36000100445001004521	FJH 1F/ AF2CH 2B3 C1H 1G2CH 2B3 A 9.A +Q
0050304	3006107521007776010	30061203340150010010	03631071330604243306	34001203340150000106	XFH Q HXFJCIA/A HC H OFD0F1 JC1A/ AF
0050310	35371063353630001075	2100777601050010010	10060753140101004564	34033007343710633436	24H 23X H Q H/A HHFGSLAA + 1CXG14H 13
0050314	30030364140034353020	12773405302334073022	34060403020046433045	05030100331512020403	XCC L 12XPJ 1EXS1GXRIFD0B -8X+ECA OMJB0C
0050320	01003350343614013437	30451071120734015001	46343401010100003540	705634241430020060100	A 0/13LA14X+H JG1A/A-11AAA 251 15+ 3 A
0050324	46420200051330141003	16203272540043575400	44675400452654004555	10632300210054004356	-7B EKXLCNCPZ = 8.= 9 = +V= + H S Q = 8,
0050330	54004466540045255400	45540100464200000000	35030700436200000336	00000000020064403044	= 9 = +U= +A -7 2CG 8 C3 B 5X9
0050334	54004423500014151006	06213052170307163024	10120613305717016010	30131201050530220403	= 9S/ LMHFFQX10CGNXTJFKX.OA HXKJAEEXRDC
0050340	02006332200000003444	10741207110704111102	05030100146214043424	01001254302204353074	B ZP 19H JGIGDI1BECA L LD1TA J=XRD2X
0050344	16216030305717016001	30051337343410711102	05060200467614000100	45551101051202004676	NQ XX.OA AXEK411H 1BEFB - L A + 1AEJB -
0050350	20004641340614053506	40060516500014050511	56001405302012773405	30210200152601001425	P -61FLE2F5FEN/ LEEI, LEXPJ 1EXQB MVA LU
0050354	33010555500600013302	05515006000233030545	50060003330413770540	50060004550046005006	OAE /F A0BE1/F BOCE+/F CODK E5/F D - /F
0050360	00031277110405113074	16276010301022002000	04021401110454004576	14013411341230776370	CJ IDEIX NW HXHR P DBLAID= + LA111JX
0050364	46661460020003363011	04041420010014162000	00003423140034223033	12771103050315023533	- L B C3XIDDLPA LNP 1SL 1RX0J ICECBZ0
0050370	14300200531730331277	10141102020061643010	34245400705630776230	61706766622061707106	LXB 10X0J HL18B XH1T= ,X X P F
0050374	14000200602650006777	62201701623001001231	20251603100000040000	20251603100200010002	L B V/ P0A XA JYPUNCH D PUNCHB A B
0050400	20430000000000020002	00000014007622060000	14010100523701004675	30051014067330223406	P8 B B L RF LAA 14A - XEHLF XRIF
0050404	30233407302012773405	30210200501704041400	34363437140034233422	14300200531750007155	XS1GXPJ 1EXQB /ODDL 1314L 1SIRLXB 10/
0050410	10210643304412071104	04030100142530365400	70513037540070525000	70563424143002006026	HQF8X9JGID0CA LUX3= (X4= )/ ,1FLXB V
0050414	30331377530070553433	50006777622017016230	01001254107133060424	33063400120334015000	XOK \$ 10/ PUA XA J=H OFD0F1 JC1A/
0050420	01063537106335363000	1075210077760105001	00101006075314010100	50163403020005133014	AF24H 23X H Q H/A HHFGSLAA /NICB EKXL
0050424	10031620327254005007	10632300210054005006	30073437106334363003	03472006516102000442	HCNPNZ = /GH S Q = /FXG14H 13XCC+PF ( B D7
0050430	20005161020004420100	50543401300551000515	60103013540051613005	02005223540051623006	P ( B D7A /-1AXE1 ( EM HXK= ( XEB )= ( XF
0050434	10710200522354005170	30060200522354005171	30010511540051732000	57555400517201005044	H B )S= ( XFB )S= ( XAEI= ( P . = ( A /9
0050440	61705175200052013401	50005200137754005200	40011071340217170605	50025202540051731400	( P )A1A/ ) K = ) 5AH 1B00FE/B1B= ( L

RA = E,35700,76000. EXPRESS 11 OSDI - V2.0 79/10/30. 15.19.41. PAGE 37  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0050444 44013701400104751277 04043601200057021157 45010100504405213030 56552323052256552413 9A4A5AD J DD3AP .BI.+AA /9EQXX, SSER, TK  
0050450 16161616565547475655 06111405160115570000 11162217202220102405 23342335233614112024 NNNN, \*\*, FILENAM. INROPRPHTESIS2S3LIPI  
0050454 20150601233114170315 00000100522212773400 1003330013702100333 03660200056614020100 PMFASYLOCM A JRJ 1 HCO K Q OOC B E LBA  
0050460 52373403140034072000 67640200056006030200 46713607500067642300 37770553500067651177 141CL 1GP B E FCB - 3G/ S 4 E\$/ I  
0050464 05475000677433060543 34013003042150016766 43030512360336011103 05705000677143031377 E+/- OFE81AXCDQ/A 8CEJ3C3AICE / 8CK  
0050470 04040200056615010100 52370100531654005410 16033403400312771102 54005474360340031340 DDB E MAA 14A 3N= -HNC1C5CJ 1B= - 3C5CK5  
0050474 11404403107154005677 30741671600130016001 30015400573130225400 57043023540057063021 I59CH = , X N AXA AXA= .YXR= .DXS= .FXQ  
0050500 34063057170154006152 60103020020061350523 54005731500067721337 54006772307763706766 1FX.UA= I HXPB 2ES= .Y/ K4= X  
0050504 63707106307761700000 60200100567630741621 60011650601030041277 54005477110304153010 FX PA , X NQ AN/ HXDJ = - ICDMXH  
0050510 60051701540061526010 30050200613554005515 04222000050134011400 54016764370106735000 EOA= I HXEB 2= MDRP EAIAL =A 4AF /  
0050514 54771100050615005400 72505400725114173401 14005401703637010673 20005473041720005476 = I EFM = /- (LOIAL =A 34AF P = DOP =  
0050520 11010421110104171466 60106170707417016170 70670326200055140505 50005477110204260200 IADQIADOL H OA CVP LEE/ = 1BDVB  
0050524 57666170707402006004 04031601030330741667 60106170706730131237 54007101301454007102 . B DDCNACCX N H XKJ4= AXL= B  
0050530 14276170712516736010 30105400705754007105 02005766617071130200 LW UN HXH= .- EB . KB DDENA P  
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0050540 34041100050754007066 20001116010056743004 11020517140054007063 10063520301410715400 1DI EG= P INA , XDIBEOL = HF2PXLH =  
0050544 70431440540070661400 03231101052354007062 30235400706310063520 30141277540070431410 8L5= L CSIAES= XS= HF2PXLJ = 8LH  
0050550 54007066200003205400 70652000567634041102 05162000000021000000 = P CP= P , IDIBENP Q DI/ .D= 5  
0050554 50005706540070415000 54740424305760103010 10710505200000001071 / .F= 6/ = DTX. HXHH EEP H DKO DUNAFG  
0050560 16705400710214005400 71013004110004135000 71013302220007773322 34225000710234230100 N = BL = AXDI DK/ AORR G ORIR/ DISA  
0050564 53160100576530741666 60103013127751000515 60103014100316040362 01006003307421000101 \$NA . X N HXKJ ( E HXLHCNDC A CX Q AA  
0050570 60103010120404673013 12371014331404621014 31551006035601006025 54006113050750007155 HXHJDD XKJ4HLOLD HLY HFC, A U= KEG/  
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0050620 01006200020005133014 10031620327254006226 10663500140460103013 10143114310060100363 / XPJ 1ELAA 1A 1 H 2 LD HXKHLVLY HC  
0050624 10752100777760103006 12033401500100101006 10632300210054006225 14003403340234003006 A B EKXLHCNPZ = VH S Q = UL 1C1H1 XF  
0050630 10713407350310633502 36000100620001006260 06121071340650000106 35031063350236000353 H Q HXFJCI A/A HMFHFJ 1F/ AF2CH 2D3 C3  
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0050650 10713462300110143302 10715500137710635500 13760200620130063422 34631071325606423156 HF1BH J41AXKJ41 HLOL1 HFYAHLYB1 H 2,F7Y,  
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0050670 35031000160000000002 00000000304504333062 33641014316333650503 62255400500601006463 B EKXLHCNPZ = V= /GH S Q = U= /FA  
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0050700 12771014335410063433 33333353100634323001 62301070341114150200 30741670603034013033 OMX= UNX OJLAI1IJL B C3X CQX N XIAXO  
0050704 15170413201422033450 10711102345130551006 16016250010013670040 03363624305762200200 J HLO=HF10000%HF12XA XH 1ILMB C3TX. PB  
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0050714 10741120040711060406 302210671110205041420 16203545302210671103 60303032127734323044 2CI N = X)H DEB M6NFCBL XXZJ 1ZX9  
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0050724 14151014060730521705 06041540550014153044 22000774230001100514 04041474540014145000 H DJX EJXOJ HLO1Q GCA O./ LDDDL = LL/  
0050730 10140636203503120200 04760200176636243057 62203030100606132014 30521710060550001415 LMHLFGX)OEFDM5 LMX9R G S AHELX)OHFE/ LM  
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0050740 13211202314434305000 14153431020015170404 20004000353030623364 00203014010017655000 X HFNA /X O LA1IA K LBA LN J PXL A O /  
0050744 20003530305334503054 34515000141410063532 30603464306134653056 10143363336504042000 KQJBY9IX/ LMIYB MODDP 5 2XX O HLO O DDP  
0050750 16016263200013010200 20570100176517010402 14161610010014160100 34633077624516016230 P 2XX11/X-11/ LLHF2ZX 1 X 1 X,1 X +NA X  
0050754 12773121341430011377 10113411106634132000 77733412146402000336 20563401302106673001 NA P KAB P.A O OADBLNNHA LNA P,1AXQD XA  
0050760 02000336307416206010 50000112540021210000 05763011171406030100 30110451170206411400 J YQILXAK H11H 1KP 1JL B C3XID(OBF6L  
0050764 34011200107300000140 01001647504511730405 16356210146660103074 20631404010014160000 B C3X NP H/ AJ= QQ E XIOLFCA P LDA LN  
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0051004 30741672601020004000 34113014341330741672 6210200002260103011 34513075625001000114 PTC5B D JKJHLL1/H OIK O(IIX /A AL  
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0051010 30463454203422170100 12005045125404715400 12530100125200000000 00001226122630470404 X-1=P1R0A J /+J=D = JSA JJ JVJXV\*DD  
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0051064 10061601622014003447 14213446010014363422 10633421203601060200 0476010053355230503 HFNA PL 1\*LQ1-A L31RH 1QP3AFB D A 12 SEC  
0051070 25220555150515172231 56550425152055041123 01021405045700005523 20032755030114145505 URRE MEMORY, DUMP DISABLED. SPCW CALL E  
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RA = E,35700,76000. EXPRESS 11 DSDI -- V2.0 79/10/30. 15.19.42. PAGE 39  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0051650 05032522055515051517 22315655042515205504 11230102140504570000 15051624235700005523 T FOR PROGRAM. TOD MANY ARGUMENTS. S  
0051654 22172255171655031716 24221714550301220457 00005511152022172005 55061722150124550522 E CURE MEMORY, DUMP DISABLED. FORMAT ER  
0051660 17165700000055102411 15055516172455012601 11140102140557000000 ROR ON CONTROL CARD. IMPROPER VALIDATI  
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RA = E,35700,76000. EXPRESS 11 DSDI -- V2.0 79/10/30. 15.19.42. PAGE 41  
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RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.42. PAGE 43  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/M 620 CLSH. NDS 1-8J03T/R2B. NDS 1.4 STUDY DUMP.

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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RA = E,35700,76000. EXPRESS 11 DSD1 - V2.0 79/10/30. 15.19.43. PAGE 47  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0056120 03041441020003363021 30130200222056002766 02002104041130776010 R X HFNA XKB RP, W L LAB RC OW A I(A J  
0056124 22623055100616016370 34243023137734233074 16706220036130533323 12773323342330543424 X)R A 1QE1ITXSK 1SX N PC X80SJ OS1SX=1T  
0056130 30522200017734210511 14003401020022031621 0200220020004763021 14003401020022031601 X N P. QTL 1AB RCNOB QDDIX HL 1AB RCNA  
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0056374 05230524570000000100 27533075601030111240 03710000000000000000 34221100107300000355 ESET. A W5X HX1J5C IRI H C  
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0056474 01001554200043253401 36014001047051000515 60303030113705673051 12373430400151000515 A M=P 8U1A3A5AD ( EM XXX14E X(J41X5A( EM  
0056500 62300357010016023026 23003032047220003032 34305400165450300004 13371100543000041412 XC.A NBXVS XZD P XZ1X= N-/X DK41 -X DLJ  
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0056510 30100571303063361653 03305500165434013226 07561414341114040200 03360100160214143411 HX8 XX 3NSCX N=1AZVG,LL11LDB C3A NBLL11  
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0056520 16550100172150005112 04115000511313373351 13373351540051133055 10065400474210635400 N A OQ/ (JDI/ (KK40(K40(= (KX HF= \*7H =  
0056524 47415000474610145100 47471071540022753056 10065400474710635400 47465000475322007007 +6/ \*-HL( \*H= R X,HF= \*H= \*- / \*SR G  
0056530 54004753307416256010 30140431301310175400 47601071130754004761 50004766100653004765 = \*SX NU HXLDYXKH0= \* H KG= \* / \* HF3 \*  
0056534 10035400232130141017 54004765107113075400 47661460601016016030 30103330100606041400 HC= SQXLHD= \* H KG= \* L HNA XXHOXHFFDL  
0056540 54005072500050653401 50005056340230745400 47735400500010635400 47725400477701002064 = / / / 1A/ / ,1BX = \* = / H = \* = \* A P  
0056544 50005055550024615000 51053466307416216170 50616010160161705073 16016170510530665400 / / T / (E1 X NQ / HNA / NA (EX =  
0056550 51053001540050655000 50753401301134125000 53761071043617060634 21000106101402003014 (EXA= / / / 1AX11J/ \$ H D3OFF1Q AFHLB XL  
0056554 16026030303054005066 20000106617050733032 55005074106355005073 30311004540050771063 NB XXX= / P AF / XZ / H / XYHD= / H  
0056560 54005076300154005075 50005067217700170604 30125400506750005253 55005077106351005252 = / XA= / / / Q OFDXJ= / / 1\$ / H ( 1)  
0056564 55005076106351005251 55005075500050703430 14005400507050005060 05125400536554005370 / H ( 1( / / / 1XL = / / / EJ= \$ = \$  
0056570 50005367137754005367 30741620617050543002 54005056307463714734 50002620510026210412 / \$ K = \$ X NP /-XB= / ,X \*1/ VPI VQDJ  
0056574 30776370261514013411 34121460020003361466 60103025120104030100 23202000000004221006 X VMLA111JL B C3L HXUJADCA SPP DRHF  
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0056620 03072006267602000442 20002676540025031421 03615000447010710416 34111703061350004471 CPGFV B D7P V = UCLQC / 9 H DN11DCFK/ 9  
0056624 34145000447012773413 14660200033650001270 05030100256514000514 30301066040614470200 IL/ 9 J 1KL B C3/ J ECA U L ELXXH DFL\*8  
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0056634 12040453500044220450 30560405500053641007 07422036220602000476 01005621500051120426 JDD\$/ 9RD/X,DE/ \$ HGG7P3RF8 D A ,Q/ (JDV

0056640 30741626626050005113 13771006530051122312 34010436230500230433 14003411146202000336 X NV / (KK HF\$ (JSJ1AD3SE SDOL 1IL B C3  
0056644 03255000505412371701 51005056040301001721 14003454345215213550 30713551307562500100 CU/ /-J40A( /,OCA OQL 1-1)MQ2/X 2(X /A  
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0056654 55220520221105260555 02141703135505222217 22570000552205202211 05260555031005031323 REPRIEVE BLOCK ERROR. REPRIEVE CHECKS  
0056660 251555020104570000000 55172005220124172255 05261103245700005505 03235505222217225517 UM BAD. OPERATOR EVICT. ECS ERROR D  
0056664 16552217141417252457 00003057626017016260 01002716140005113020 12773411302134121443 N ROLLOUT. X. OA A WNL EIXPJ 1IXQ1JL8  
0056670 02000336500043140455 50004320335113373351 54004320305754005371 17016336431403433001 B C3/ 8LD / 8P0(K40(= 8PX.= \$ OA 38LC8XA  
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0056714 10710457305211010457 30743171637170000352 01003106200067760200 27551071045720003116 H D.X)IAD.X Y CJA YFP B W H D.P YN  
0056720 63717000327154004303 10635400430230256336 43020352020005133074 54001462010031411402 Z = 8CH = 8BXU 38BCJB EXK = L A Y6LB  
0056724 34361466606030543457 60203024343514036010 30511237550016201237 10013110342560103010 13L X=1. PXT12LC HX(J4 NPJ4HAYH1U HXK  
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0056740 22100200047603572036 22070200047620006165 54003071307416206030 16616010303134653010 RHB D C.P3RGB D P = X X NP XN HXY1 XH  
0056744 34253012101207135000 33275400274420000302 54001112540011322000 03025400111054001136 LUXJHJGK/ OW= W9P CB= IJ= IZP CB= IH= IJ  
0056750 30121277101433130171 54001273560012722000 0301540030501003223 03450000000000000000 XJJ HLOKH = J , J P CA= XSA ZSC+  
0056754 36221000543600000244 01005443010067460100 54472000545116026010 16016030301334431400 3RH =3 B9A =8A =A =\*P =(NB HNA XXX18L  
0056760 34131466600130342200 57233405200054711602 62101601620150001270 04343033120734015001 IKL AXIR .S1EP = NB HNA A/ J D1X0JG1A/A  
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0057000 10300100560350001270 04732000677602002755 10710572036414010100 56200774170207721602 HXA ,C/ J D P B W H E C LAA ,PG OBG NB  
0057004 31011071325606651400 03640100563430560474 50005367137710065100 53660465315510061602 YAH Z,F L C A ,1X,D / \$ K HF1 \$ D Y HFNB  
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0057020 20003032540057613043 02006643610330323043 3302051650030325100 30335100303451003035 P XZ= . X8B 8 CXZX80BEN/ XZI XOI X1I X2  
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0057044 51122000400054005377 34103074210001056210 17026010301222006000 34123074210001036210 (JP 5 = \$ 1HX Q AE HOB HXJR 1JX Q AC H  
0057050 50005345127710141100 10065400534520777677 55005075200000005400 53273043340104311410 / \$+J HLI HF= \$+P / P = \$WX81ADYLH  
0057054 34010200664361017047 30742100013063017047 20007112340240020505 15053502370105725002 1AB 8 A \*X Q AX A \*P J1B5BEEME2B4AE /B  
0057060 000400202360120000130 54005401310154005402 50005404041734125000 54031277341114430200 DDB3AP AX= -AYA= -B/ -DD01J/ -CJ 1IL8B  
0057064 03363013540026203014 54002621146661705403 01006051010062225000 53501377340110065300 C3XK= VPXL= VQL -CA (A R/ \$/K 1AHF\$  
0057070 53470466340210060716 10713256062014666010 36143001100633023155 10066210034622377777 \$\*D 1BHFGNH Z,FPL H3LXAHFOBY HF HC-R4  
0057074 16211071325606241420 34033001100633022277 37773155100663034734 10143255100654004735 NQH Z,F TLP1CXAHFOBR 4 Y HF C\*1HL7-HF= \*2  
0057100 10635400473401006222 01006307500053671277 10063155100651005370 03652000263454002503 H = \*1A RA G/ \$ J HFY HF( \$ C P V1= UC  
0057104 1403520050507035500 50550100633402006524 05615000536410100620 02006310160460303032 LC) / GC / A 1B TE / \$ IHFPB HND XXZ  
0057110 22007377230004003432 02006310160462300350 30140405200026500100 63241420340302006310 R S D 1ZB HND XC/XLDEP V/A TLP1CB H  
0057114 16116303473430345400 47353033127754004734 02006310160360301604 60202000020034331063 NI C\*1X1= \*2X0J = \*1B HNC XND PP B 10H  
0057120 34321440343434245400 53473055100616016010 62605000536713771006 51005366043610065400 1ZL5111T= \$\*X HFNA H / \$ K HF( \$ D3HF=

RA = E, 35700, 76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.44. PAGE 52  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0057204 12775500611612771105 05053007220037770304 30232300400054006127 01005443010070473011 J NJ IEEEXGR 4 CDXSS 5 = WA =8A \*XI  
0057210 17011207101134402077 44443512301222000700 35403012120710033540 30131071173335400351 0AJGHI15P 992JXJR G 25XJJGHC25XKH 0025C(  
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0057220 34221700107300000470 02003005020035430200 53520200260302002532 02002121020020250200 1RD H D B XEB 288 18B VCB UZB QQB PUB  
0057224 44163057540070113074 16666000300312775400 71733074162161707000 16506000300010710504 9NX.= IX N XCJ = X NQ N/ X H ED  
0057230 50007003127754007230 14005400722654007227 14666170723320000100 54007004030620007777 / CJ = XL = V= WL OP A = DCFP  
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0057240 02002372500070113457 30715400677702001366 02001451020014640200 50170200153202001570 B S / 11.X = B K B L(B L B /QB M2B M  
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0060030 20005224313234671063 34660100514000000100 52351400047434013530 32013400100231005500 P )TYZ1 H 1 A (5 A )2L D 1A2XZAI HBY  
0060034 52543074163061016276 03570100525620000000 04733401540067771063 34023001040630741630 )=X NX A C.A 1,P D 1A= H 1BXADFX NX  
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0060050 05763011112204540356 01005351307416706010 30131377100631121006 04143417106334163054 E XIIRD=C,A \$(X N HXKK HFYJHFDL10H INX=  
0060054 05070200567405041410 55004671307416656010 30131237101431140504 02006250040734171063 EGB , EDLH - X N HXKJ4HLYEDB /DG10H  
0060060 34160200567404030100 55330200555430333211 10143134321206071006 31133207101431143210 1NB , DCA OB =XOZIHLY1ZJFGHFYKZGHLVYLZH  
0060064 34011071160134273001 12775400514730133211 10143114321234011701 10715400523430011277 1AH NAIWXAJ \* (\*XKZIHLYLZJIAOAH = )1XAJ  
0060070 04035400517230105400 52165400522530075500 52155400522430113466 30123467030160063155 DC= (XH= )N= )UXG )M= )TX11 XJ1 XNHFY  
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0060170 55005237010057740011 74122322255533333333 3333573333335251624 2357555555500003055 J4A . I JSRU 000000.000 UNTS. X  
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0060204 30301601600330031071 11740403570065013003 12771175041402006606 05035600641714023530 XXNA CXCH I DC. AXCJ I DLB FEC, DLB2X  
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0060260 23002420056630122300 25240562301313770357 30366135705030570502 14671701613570620100 S TPE XJS UTE XKK C.X3 2 /X.EBL OA 2 A  
0060264 44112000450754002237 30741650601016156030 30301071550047323054 05143010220024000410 91P +G= R4X N/ HNM XXXH \*ZX=ELXHR T DH  
0060270 10650402140311021006 55004676500025050146 54004605500025041277 55004604307763702477 H DBLC1BHF - / UEDN= -E/ UDJ -DX T  
0060274 17016170500430741662 60103011540050103210 17010704140054005010 30741665603016106010 OA /DX N HXI= /HZHOAGDL = /HX N XNH H  
0060300 30110200700654006476 10635500647530301277 10143131043216015400 62121071325607062000 XIB F= H XXJ HLYDZNA= JH Z,GFP  
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0060310 15000100700512071107 04721107100321000010 03660000000000000000 36222100440400000043 M A EJJGIG IGHCQ HC 3RQ 9D 8  
0060314 01004411140054001164 20004424540022370366 01004423500011660573 30461014314716026030 A 9IL = I P 9T= R4C A 9S/ I E X-HLY\*NB X  
0060320 62601601601014303514 50001177040420002000 35143046101431471603 62102000200034303045 NA HLC2L/ I DDP P 2LX-HLY\*NC HP P 1XX+  
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0060420 02000336030414360200 03360100011400160076 002200000000000000052 002400000000000003433 B C3CDL3B C3A AL N R P ) T 10  
0060424 50001367340140013432 12033402010214020307 03130307203620100200 04760200127102000566 / K 1A5A1ZJC18ABLBCGCKCP3PH8 D B J B E  
0060430 03670200127103640000 000000000000001001425 54001433307763701432 17016040304313773443 C B J C A LU= LOX LZOA 5X8K 18  
0060434 14003444036101001444 14003402500214660400 53001635040414023502 34675002146734020102 L 19C A L9L 1B/BL D % N2DDL828C /BL 18A8  
0060440 00001710207436513750 24472677525252110000 01001477140034033402 030030061075210007777 OHP 314/T+V ) ) ) A L L 1C1B1 XFH Q  
0060444 60103006120334015001 00101006061210713406 50000106350310633502 36000353107134073503 HXFJC1A/A HHFFJH 1F/ AF2CH 283 C1H 1G2C  
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0060454 13773413307134223041 10060605020012621606 62200200126262100100 13050100160150001120 K 1KX 1RX6HFFEB J NF PB J HA KEA NA/ IP  
0060460 04032000000521001113 02001426036414003457 30741621617025705000 25731277540012233052 DCP EQ 1KB LVC L 1.X NQ U / U J = JSX)

RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.47. PAGE 55  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0060550 11440200502254001224 06100100205202001602 02001367001350000515 31056010301010110634 I9B /R= JTFHA P)B NBB K K/ EMEY HXHHIF1  
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0060560 05653012120105040200 1367014302007125052 26231015060302004260 02004173305211050403 E XJJAEDB K ABB WJ/)VSHMFCB 7 B 6 X)IEDC  
0060564 20000023230011060700 41142004257502000442 50522623101306112000 01205400257520042575 P SS IFB 6LPDU B D7/)VSHKFIP AP= U PDU  
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0060644 01002711300534603411 30521111051450001123 12771101050750002622 05600200136700431425 A WIXE1 IIX)IIEI/ ISJ IAEG/ VRE B K 8LU  
0060650 34131457020003363011 1237053305211200406 11240404020052420703 01002711500025671103 1KL.B C3XIJ4EOX)IPDFITDDB )7GCA WI/ U IC  
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0060730 32560703010026673001 52001222060355001222 50001222171034010723 04220200126216106101 Z,GCA V XA) JRFC JR/ JROH1AGSDRB J NH A  
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0060754 06115000262205030100 26672000011060203023 12773423500011471377 31235400114701003245 FI/ VRECA V P AH PXSJ 1S/ I\*K YS= I\*A Z+  
0060760 15000100350650001125 34363437047150522623 10070603140003633074 21000101601030101017 M A 2F/ IU1314D /)VSHGFLC X X AA HXHHO  
0060764 06055000122311000423 50522623102107443052 11040514500011240411 50001120050301003505 FE/ JSI DS/)VSHQG9X)IDEL/ ITDI/ IPECA 2E  
0060770 14025452262350001147 12775100051560103014 10031604603020001125 02001426140034442000 LB=)VS/ I\*J ( EM HXLHCND XP IUB LVL 19P  
0060774 53743415203301260200 04763001343654001104 10143102343754001105 05313052110504261101 1\* IMPOAVB D XA13= IOHLYB14= IEEXY)IEDVIA  
0061000 05175000112005140200 12626010200010333414 02001262621001001305 02001602020013670013 ED/ IPELB J HP HOILB J HA KEB NBB K K  
0061004 50030062540011505052 26231202050530363425 30373426010035060100 36675052262310070703 /C = I/)V5JBEEEX3IUX41VA 2FA 3 /)VSHGGC  
0061010 14010370500011661237 10145100116716031071 32560703010026671404 34015000116612371006 LAC / I J4HL( I NCH Z,GCA V LDIA/ I J4HF  
0061014 31551006510011676101 11701466603050001212 12773433500012133434 14056000300232003405 Y HFI( I AI L X/ JJJ 10/ JKILIE XB2 IE  
0061020 37050603010027035100 05156010301010060666 30141003160460005000 12073300055650001210 4EFCA WCI( EM HXHHFF XLHCND / JGO E,/ JH  
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0061324 02002261506600241277 34325066002410710517 30460505140434320100 21125046000610150770 B R / TJ 1Z/ TH EOX=EELD1ZA QJ/- FHMG  
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0061344 0404304604630303046 04261427601030715546 00061063554600053012 54460007301354460010 DDX-D CCX-DVLW HX - FH - EXJ=- GXK=- H  
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0061364 3006544577530075445 77760200051330450200 05600603010024111402 34023045161434010312 XF=+ XG=+ B EXK+B E FCA TILB1BX+NL1ACJ  
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RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.47. PAGE 57  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0061400 05663001344630015400 17250100226030023371 04020367504500023461 50450003346231610457 E XA1-XA= OUA R XBO OBC /+ B1 /+ C1 Y D.  
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0061410 16124445140254450001 02002245300654457775 30075445777630451602 54002461160554002464 NJ9+LB=+ AB R+XF=+ XG=+ X+NB= T NF= T  
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0061440 0200456501002565064 00105400123650640011 54001237306402003137 30473230045417030752 B + A U / H= J3/ I= J4X B Y4X+ZXD=OCG)  
0061444 16013447306705030200 43240200335714205535 00013063020040563063 33350404303502004565 NAI+X ECB 8TB 0.LP 2 AX B + X 02DDX2B +  
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0061540 17026170332461703326 40031377440314005403 00015000112422003737 54010024500011635401 OB OT OV5CK 9CL =C A/ ITR 44=A T/ I =A  
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0061660 34070200454704365400 12363406500001063503 10633502300232270706 10143103323017010605 1GB +\*D3= J31F/ AFZCH 2BXRZWGFHLYCZXOAE  
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0061670 01004417010042153006 34003000340610752100 77776010300612033401 50010010340010060617 A 90A 7MXF1 X 1FH Q HXFJC1A/A H1 HFFO  
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0061770 05663066550047271413 52001222060602001262 16136370010650660036 12775400116304103052 E X \*WLK) JRFFB J NK AF/ 3J = I DHX)  
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0062220 30135266000634130603 36133712301252660055 34123030351310633127 35121063040402001367 KK) FLKFC3K4JXJ) E1JXX2KH YW2JH DDB K

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0062270 00035300705312770567 50660004530070540562 14023431506600165331 70640553570047633731 C\$ \$J E / D\$ =E L81Y/ N\$Y E\$. \* 4Y

0062274 06675000707513773431 51660025137704253400 30310420340130003331 33013431506600251277 F / K 1Y( UK DU1 XYDPIAX OYOA1Y/ UJ

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RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.47. PAGE 59  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0062330 16136370010630521113 04105000126012355400 53330100527620001400 54005316020012621601 NK AFX)IKDH/ J J2= \$OA ) P L = \$NB J NA  
0062334 60103013127710063155 10060604020013673057 31141620170110713255 32560666306654005267 HXKJ HFY HFFDB K X.YLNPOAH Z Z,F X = )  
0062340 14203401301312771006 31551006311463010000 50001260123511025400 53335000124334576020 LP1AXKJ HFY HFYL A / J J2IB= \$O/ J81. P  
0062344 14005400124330201377 51001256342050660010 34213422140134231405 34243051123721001200 L = J8XPK ( J,LP/ H1Q1RLA1SLE1TX(J40 J  
0062350 34441377540011172000 00005500111634433057 62201701624050001256 34111416341314570200 19K = IOP IN18X. POA 5/ J,1ILNIKL.B  
0062354 03360100154401005355 20007177340350007170 22000132343241035103 00015103000205030200 C3A M9A \$ P 1C/ R AZ126CIC AIC BECB  
0062360 55455000112412373401 02005561305211130510 20000100550071701402 55077776500155343431 +/ ITJ41AB X)IKEHP A LB G /A 1LY  
0062364 04030131000014540100 56413032410351030001 51030002052614325500 71705607777601005355 DCAY L=A ,6XZ6CIC AIC BEVLZ ,G A \$  
0062370 30325103000151030002 05111412036230325103 00020503140203543032 10130604200023600303 XZIC AIC BEILJC XZIC BECLBC=XZHKFDP S CC  
0062374 20000004010056413032 12320571140254005511 54005516540055205003 55102300777704555603 P DA ,6XZJZE LB= I= N= P/C HS D ,C  
0062400 55155607551701005355 30321220055203530332 12300546140103465430 54765456547600005446 M,G DA \$ XZJPE)C\$XZJXE-LAC--X= --  
0062404 55235527010055441400 54007202540072075400 72145400722103640100 55602000012360103014 S WA 9L = B= G= L= QC A P AS HXL  
0062410 05023614100231142100 71773407500777750560 30071702540056061466 61705605301054077775 EB3LHBYLQ 1G/G E XGOB= ,FL ,EXH=G  
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0062420 02001500035254005665 30330200461350001256 54001424500012575400 14222000036054001423 B M C)= , XOB -K/ J,= LT/ J,= LRP C = LS  
0062424 30200200136700040100 56663052111304040200 34350370500011241237 11000405110204031107 XPB K DA , X1IKDDB 12C / ITJ41 DEIBDCIG  
0062430 05171427601050000012 54660040500000135466 00415000001454660042 30650200456503443033 EQLW H/ J= 5/ K= 6/ L= 7X B + C9X0  
0062434 02004613302002001367 01740200056614020100 57433403140034072000 67760200056007633607 B -KXPB K A B E LBA .81CL 1GP B E G 3G  
0062440 50006776230037770555 50006777117705515000 70063306054534013003 04215001700043030512 / S 4 E / I E/ FOFE+1AXCDQ/A 8CEJ  
0062444 36033601110305705000 70034303137704040200 05661501010057430100 60205100051560003004 3C3AICE / C8CK DDB E MAA P( EM XD  
0062450 10031604617061155000 61201377331054006120 14056000300232003405 37050751510005156000 HCND M/ PK OH= PLE XBZ 1E4EG(I EM  
0062454 30001071124111400566 30031006076330041003 16156010170760111702 601230102200103000547 X H J615E XCHFG XDHCNM HOG IOB JXHR HXE\*  
0062460 30111007074414123407 50076103430705663607 11160571300401006020 00000000000000000000 XIHGG9LJ1G/G C8GE 3GINE XDA P  
0062464 01006122200037775400 67761477540067773057 04065400701117016170 70003005540070053006 A RP 4 = L = X.OF= IOA XE= EXF  
0062470 54007006142761707012 56007012140034071601 54007007200067760200 05630603010057315000 = FLW J, JL 1GNA= GP B E FCA .Y/  
0062474 70073407010061220000 36200700465700000201 010046640200035013445 54002012013100000200 GIGA R 3PG -. BAA = P 2A1+= PJAY B  
0062500 136700100200352000572 14000200176750660011 10060707020027230200 54370100154202005362 K HB 2 E L B O / IHFGGB WSB =4A M7B \$  
0062504 14005466000554660006 54660003546600040200 51170100154402003500 04040200136700105066 L = E= F= C= DB (OA M9B 2 DDB K H/  
0062510 00241071110205040200 13670054307763701125 17016170110614003446 50660012346150660013 TH IBEDB K =X IUOA IFL 1-/ J1 / K  
0062514 34623161041002002261 30460404020054020311 20002400540025545400 25550200167402005437 I Y DHB R X-DDB -BCIP T = U=- U B N B =4  
0062520 01001542020013670010 20006271020054622000 11773401145202005576 04040200136704105000 A M7B K HP B = P 1AL)B DDB K DH/  
0062524 11765366005112770567 50660011100606455066 00525166005351660054 04275066005012010523 I \$ (J E / IHFF+/ ) ( \$ ( -DW/ /JAES  
0062530 50660050120605220200 53621400546600105066 00251277546600250200 / /JFERB \$ L = H/ UJ = UB (OA M9B K  
0062534 04240200136704300100 51160200543702001271 02000566506600251277 04133410500011471277 DTB K DXA (NB =4B J B E / UJ DK1H/ 1\*J  
0062540 02005674060402001367 00672000514402004536 02000513144360103010 B , FDB K P (9B +3B EKL8 HXHXJPIPD3/ EM  
0062544 310560103001410031620 32725400151010632300 21005400150702001500 YE HXLHCNPZ = MHH S Q = MGB M B EKP B  
0062550 05600715500051453406 53007006040356005273 14000200561704115000 51450200461330600200 E GM/ (+1F\$ FDC, ) L B ,001/ (+B -KX B  
0062554 13670162500071701277 11320503540052735000 70531277101453007054 K A / J IZEC= ) / \$J HL\$ -S )EMLBLY  
0062560 50660016533170640506 57005257373106670303 56005273200000000405 / N\$Y EF. ).4YF CC, ) P DEP 5 /  
0062564 71701232510071775100 72005100720104205000 71701140540071700200 JZ( ( ( ADP/ 15= B EKB . B E  
0062570 30060200461303170200 05665000527305673005 23004000341130063412 14430200033650005273 XFB -KCOB E / ) E XES 5 1IXF1JL8B C3/ )  
0062574 04053005020013670243 01005116010053615066 00031277550052515066 00045400525250660010 DEXEB K BBA (NA \$ / CJ )(/ D= )(/ H  
0062600 54005145036001005401 30461605540054301427 60105000112412173400 = (+C A -AX-NE= -XLW H/ ITJ01 /- FK Y 11  
0062604 50460005341030776210 61705427304502004565 01005401010054361427 /- 1LHX H -WX+B + A-AA =3LW HXJ= OKX  
0062610 54660034301454660035 30650200456502000566 03550100546134651602 34665000114712773405 = EXL= 2X B + B E C A = 1 N81 / 1\*J 1E  
0062614 50001275340602000513 02004626040402001367 14230200426550001173 / J 1FB EKB -VDDB K LSB 7 / I = 1F/ I  
0062620 54657776340730650200 05600605300502001367 01745000117210711203 = 1GX B E FEXEB K A / I H JCHD1AHBYA2  
0062624 30015265000106065066 00045300121304040200 13670410506600035300 XA) AFF/ D\$ JKDDB K DH/ C\$ JJJ E P JD  
0062630 34011414020055760560 01005461010055753166 34021403340340014302 05673601360237030463 1ALLB E A = A Y 1BLCLC5A88E 3A3B4CD  
0062634 03700200056614020100 56163403140034072000 67760200056007633607 50006776230037770555 C B E LBA ,N1CL 1GP B E G 3G/ S 4 E  
0062640 50006777117705515000 70063306054534013003 04215001700043030512 / I E/ FOFE+1AXCDQ/A 8CEJ3C3AICE /  
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 0062660 50075756430705663607 11160571300401005673 00000000000000000000 01005775200037775400 /G.,8GE 3GINE XDA , A . P 4 =  
 0062664 67761477540067773057 04065400701117016170 70003005540070053006 54007006142761707012 L = X.DF= IOA XE= EXF= FLW J  
 0062670 56007012140034071601 54007007200067760200 05630603010060515000 70073407010057753006 , JL 1GNA= GP B E FCA (/ G1GA . XF  
 0062674 02004613306002001367 01740000000000000000 36201100161500000172 01001622010023345000 B -KX B K A 3PI NM A A NRA S1/  
 0062700 11231277110105040200 13670013010016360200 16023074210001016020 30201017065550001123 ISJ IAEDB K KA N3B N8X Q AA PXPPOF / IS  
 0062704 12771104046050001147 12775100051560330334 10031604603030776240 60100200250305523001 J IOO / I+J ( EM XX1HCND XX 5 HB UCEIXA  
 0062710 60203020127734055400 12565400142430213406 54001422540012575600 14215000112412373412 PXPJ IE= J,= LTXQIF= LR= J., LQ/ ITJ41J  
 0062714 50122471050634573020 02001367005714003411 14003413300134141701 60403077624014510200 /JT EF1.XPB K .L 1IL 1KXALLOA 5X 5L1B  
 0062720 03363011041314003457 20000360540014233021 02001367000720001113 02001426150001001636 C3XIDKL 1.P C = LSXPB K GP IKB LVM A N3  
 0062724 01001773302710710404 02001367005330273130 05040200136700175000 12250457302710740561 A O XWH DDB K \$XWYXEDB K U/ JUD.XWH E  
 0062730 30271014313016071074 52001225074405500342 01002031500012433457 60201400540012433020 XWHLYXNGH ) JUG9E/CTA PY/ J81. PL = J8XP  
 0062734 13775100125634205000 12573421342214013423 14053424305112372100 12003444137754001117 K ( J,1P/ J.1Q1RLA1SLE1TX(J4Q J 19K = 13  
 0062740 50001260130255001116 34433057622017016240 50001256341114163413 14570200033601002031 / J KB IN18X. POA 5/ J,1ILN1KL.B C3A PY  
 0062744 01002113200011130200 14260200257504110200 27420414140034570200 3670117500012420554 A QKP IKB LVB U DIB W7DLL 1.8 K AO/ J7E=

RA = E,35700,76000. EXPRESS 11 DSDI -- V2.0 79/10/30. 15.19.47. PAGE 61  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0063214 10065300255513770407 50071224233624000200 04760200205316016060 16016020160160300100 HF\$ U K DG/GJTS3T B D B P\$NA NA PNA XA  
0063220 12240001256400022564 00032564000425640010 25640011256400122564 00132564001425640016 JT AU BU CU DU HU IU JU KU LU N  
0063224 25640007256400064101 00057011001525640100 12625400127714053445 20001270170160103077 U GU F6A E I MU A J = J LE1+P J OA HX  
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0063264 20531603623001001102 50001277110104041401 02001263147602000336 01001147010015323077 P\$NC XA IB/ J IADDLAB J L B C3A 1+A MZX  
0063270 62601601622016016230 17026173503314140100 11650100155050002240 17023402200016013401 NA PNA XOB /OLLA I A M// R50B1RP NA1A  
0063274 14033501500100015400 15514001041233020566 50010002045253002555 05600346010015161756 LC2A/A A= M15ADJOBE /A BD1\$ U E C-A MND.  
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0063304 41674063110025752617 14002732257715000000 01001643346550657776 10760471344514005465 6 5 I U VOL WZU M A N81 / H D 1+L =  
0063310 77764065050614123565 37450572035602001715 30655400167614023401 30776301167517013457 5 EFLJ2 4+E C,B OMX = N LB1AX AN OAL.  
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0063334 20000500350321771504 06104003346550030001 34663003035030075400 20513045540055730200 P E 2CQ M0FH5C1 /C A1 XCC/XG= P(X+= B  
0063340 05661401010017300000 01002052304610143347 03720200056620062537 020004513301410031620 E LAA OX A P1X-HLOXC B E PFU4B D7A P /  
0063344 67762300377705635000 67771177055750007004 10711101040311050550 50007003127711030543 S 4 E / I E./ DH IAD0CIEE// CJ ICE8  
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0063370 21603001010022373403 02000560060302001551 50030001340140030505 34010100223701002276 Q XAA R41CB E FCB M1/C A1A5CEE1A/C AD.1G  
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0063410 22760100235630551006 16116010301310063155 10033126100331143436 10633435101431360355 R A S,X HFNI HXKHFY HCVVHCYL13H 12HLY3C  
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0063420 30261203340130261075 21002432601050010010 34260100244030551006 16076010301110063155 XVJC1AXVH Q TZ H/A H1VA T5X HFNG HX1HFY  
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0063434 14003407160154007007 20306776020005635000 70073407010024662217 14141725245506111405 L 1GNA= GPX B E / G1GA T ROLL0UT FILE  
0063440 55020104570000001404 60101405351054001271 30521006315510063153 54001145106355001144 BAD. LD HLE2H= J X1HFY HFY\$= 1+H I9  
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0063524 22773002051430033424 21777577061530351014 31363145160162201402 35451110054101003037 R XBELXC1TQ FMX2HLY3Y+NA PLB2+1HE6A X4  
0063530 20774444356013771003 34533060127710063553 20774444356110173553 10603553020024021603 P 992 K HCL\$X J HF2\$P 992 H02\$H 2\$B TBNC  
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0063544 06732000001154005066 50015070127705041455 55015070200074125400 50675401507114015401 F P I= / /A/ J EDL A/ P J= / =A/ LA=A  
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0063614 50573011041354002727 30776370272617016030 30300200331104305400 27533057110404055000 /X.XIDK= MWX MWDA XXXB OIDX= M\$X.IDDE/  
0063620 27534425032002003233 10012100275203112077 37774525042030341204 05131400452532650707 W\$9UCPB ZOHAQ WICIP 4 +UDPX1JDEKL +UZ GG  
0063624 04061400442514025425 00010100270414000200 33110504200005000356 44250355000030213025 DFL 9ULB=U AA WDL B OIEDP E C,9UC XQXU  
0063630 30313035304100000000 02012311030000000624 1640000000006241600 00000000140422540000 XYX2X6 BASIC FTN5 FTN LDR=  
0063634 00000000000000000000 01003045140134013034 101707301340034013025 16063457303312200516 A X+LA1AX1HOGCL 1AXUNF1.XOJPEN  
0063640 40251277101431010200 36453010455732120747 30124457034414030374 01003103140234023042 5UJ HLYAB 3+XH+.ZJG\*XXJ9.C9CLC A YCLB1BX7  
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0063654 31543457160554003151 40570550146660400305 30043442305434441414 34111404020003363003 Y=1.NE= Y45.E/L 5CEXD17X=19LL1ILDB C3XC  
0063660 33040422500350663453 02002402160360303034 13023434020020531603 62303603330405570100 ODDR/C/ 1\$B TBNC XX1KB11B P\$NC X3CODE.A  
0063664 31031400010032150255 77760573302012773405 51000515601030101006 06613021340604570200 YCL A ZZ/U E XPJ 1E1 EM HXHHFF XQ1FD.B  
0063670 22773002101431030351 30300426020035160423 60103010100606141002 10673401305711050506 R X8HLYCC1XXDVB 2NDS HXHHFFLH8H 1AX.IEEF  
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0063700 36621466603014303401 20004011340240021153 05023602400204201745 06161645100644013602 3 L XLX1AP 511B5B1\$EB3B5BDPO+FNN+HF9A3B  
0063704 40020471174506671645 45013602360103570100 32610100336330251703 54003374140334015001 5BD O+F N+\*A3B3AC.A Z A O XUOC= O LC1A/A  
0063710 33735401001037010672 02003616301132771014 16030200364516016010 30112200377734651401 O =A H4AF B 3NXXJ HLNCB 3+NA HX1R 4 1 LA  
0063714 60103014325532563265 06023565010033630100 34315025000110711104 04715025000112772300 HXLZ Z,Z FB2 A O A 1Y/U AH IDD /U AJ S  
0063720 04005425000150250002 12775425000214015425 00040351140134530200 24021603603036343044 D =U A/U BJ =U BLA=U DC1LA1\$B TBNC X31X9  
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0063730 16010100351514076001 14003403300103051602 35021063350110143102 60103014107134053010 NAA 2MLG AL 1CXACENB2BH 2AHLYB HXLH 1EXH  
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0063744 37030523000401003525 01003615301117011207 1011345320774443512 30122200070035533012 4CE1XDA 2UA 3MX1DAJGH11P 992JXJR G 2\$XJ  
0063750 12071003355330131071 17333553035101003644 34001066350014046010 30131014311431006010 JGHC2\$XKH 002\$CIA 391 H 2 LD HXKHLYLY H  
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0064020 14440200033601000114 01001232200053053463 50640002220007770510 02000566147602000336 L9B C3A ALA JZP \$E1 / BR G ENB E L B C3  
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0064034 37773412300734131443 02000336363130331014 31341603622501001232 14015400131101001343 4 1JXG1KL8B C33YXOHLYINC UA JZLA= KIA K8  
0064040 30641605340653001423 04654064127734054306 22004077540013110357 01001364200067763464 X NE1F\$ LSD 5 J 1E8FR 5 = KIC.A K P 1  
0064044 34024064100607241014 12773405036350000515 31056010301410031612 60103010045132020604 1B5 HFGTHLJ 1EC / EMEY HXLHCNJ HXHD1ZBFD  
0064050 35023064340114053564 23001422054530013464 40641277340501001364 01001434306323300000 2BX 1ALE2 S LRE+XA1 5 J 1EA K A L1X SX  
0064054 02000563077036074063 10060605107134061400 34072000050235633762 05550352366230664463 B E G 3G5 HFFEH 1FL 1GP EB2 4 E C13 X 9  
0064060 50001520346330540516 30035464000205055464 00035464000401001502 14003462340336631601 / MP1 X=ENXC= BEE= C= DA MBL 1 IC3 NA  
0064064 54001520140034660200 26736135151737540503 30530504305234031410 35661450550015200200 = MPL 1 B V 2M04=ECX\$EDX11CLH2 L/ MPB  
0064070 27553066107105033054 05520100146201001545 50000106170134033207 W X H ECX=EJA L A M+ AF0A1CZG132 FOXE1  
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0064104 02003003036401001634 20005305346314013462 30251071346602002673 60431443340120002421 B XCC A N1P \$E1 LA1 XUH 1 B V 8L81AB T.C  
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0064120 50002012323206101401 54001757203524170200 04762000627402002003 02002573307763701756 / PJZZFHLA= O.P2TOB D P B PCB U X O,

RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.48. PAGE 63  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0064124 14260200033601001225 20010000000000000000 01001763020022300773 34363266060314003466 LVB C3A JUPA A U B RXG 13Z FCL 1  
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0064200 34011400346630410303 03434001040514053501 36660372360102002421 30101014311121002327 30101014311121002327 1AL 1 X6CCC85ADELE2A3 C 3AB TQXHHLYIQ SW  
0064204 06601404036201002334 50005306540024133454 10023554304154005306 20005301315434012177 F LDC A S1/ 1F= TK1=HB2=X6= 1FP 1AY=1AQ  
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0064214 36010200242130101014 31112100240707612000 24125400530615000357 010024201400340103411 3AB TQXHHLYIQ TGG P T7L 1F1 1H11  
0064220 40011071174506671612 07653411400112771745 06601612075634023011 10023111100131023411 5AH O+F NJG 115AJ O+F NJG,1BXIHBYIHAYB11  
0064224 50010001107117450642 16120761340230111002 31111001310234115001 00011277174506611612 /A AH O+F7NJG 1BXIHBYIHAYB11/A AJ O+F NJ  
0064230 07433402301110023111 10013102341110633410 50010002107117450641 16120757340230101014 G81BXIHBYIHAYB11H 1H/A BH O+F6NJG.1BXIHHL  
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0064244 03600100257230251014 13773166100634253033 10143134160262201601 62250360010026120200 Y A U XUHLK Y HF1UXOHLYINB PNA UC A VJB  
0064250 05133014100316203272 54002640106323002100 5400263714003403402 3400300610752100777 EKX1HCNPZ = V5H S Q = V4L 1C1B1 XFH Q  
0064254 60103006120334015001 00101006061210713406 50000106350310633502 36000353107134073503 HXFJCL1A/A HHFFJH 1F/ AF2CH 2B3 C1H 1G2C  
0064260 10633502360001002612 01002672305510061611 60103013100631551003 31521003311434611063 H 2B3 A VJA V X HFNI HXKHFY HCY1HCYL1 H  
0064264 34601014316103550100 27153055100616036010 30321003100631111006 3151006311234341063 1 HLY C A WMX HFNC HXZHCHFYH1FY HFYJ11H  
0064270 34331014313403543052 12033401305210752100 27466010500100103452 01002754305510061607 10HLY1C-X1JCL1X1H Q W- H/A H1A W-X HFNG  
0064274 60103011100631551006 31125400274710633500 27465000300154002756 03400362010030023403 HX1HFY HFYJ= W\*H W-/ XA= W,C5C A XB1C  
0064300 16025400301716125400 30223057040417016173 00021427617000143006 54030011300754030012 NB= XONJ= XRX.D00A BLW LXF=C IXG=C J  
0064304 14005403000144033003 02000563010030020100 30421400340201003150 14103202340330363266 L =C A9CXC8 E A XBA X7L 1BA Y/LH2B1CX3Z  
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0064320 3531010030230363266 04050100305030333502 02002553376204163036 10023136160235634063 2YA X7X3Z DEA X/XC2B8 U14 DN3H8Y3N82 5  
0064324 34360464506300013436 04600353406331360407 30361071050630311013 07031520353130020505 13D / A13D C15 Y3DGX3H EFXYHKGCM2YXBEE  
0064330 30525364000305173052 54640002140034661466 60101414341030601014 31613102621001003042 X1) CEDX)= BL 1 L HLL1HX HLY YB HA X7  
0064334 46460517064646554646 05172246465514103435 30551006160460053007 17015400201214003457 --E0F-- --E0R-- LH12X HFND EXGOA= PJL 1.  
0064340 30520403010033252000 17563464305434325400 17620200271616026020 16016025160460103010 X1DCA OUP 0,1 X=1Z= O B WNNB PNA UND HXH  
0064344 10200724101107243031 10150617142502000336 30113452540017610407 14003466140134620100 HPGTHIGTXYHMFOLUB C3X11)= U DGL 1 LA1 A  
0064350 17250100174630531207 17020772035002002673 61356776145055003330 34011400540100010200 OUA O-X1JG08G C/B V 2 L/ OXIAL =A AB  
0064354 2755056234022006776 34643403506400045200 20120706560011021412 55003367140535643602 W E 1BP 1 IC/ D) PJGF, 1BLJ O LE2 3B  
0064360 50640001056050647772 43031277040520002400 54001400306454001423 30025400116301001102 / AE / 8CJ DEP T = L X = L5XB= 1 A 1B  
0064364 35241700323100000326 01003236020052620373 01003243020041100773 30241244050301003362 210 ZY CVA Z3B ) C A Z8B 6HC XTJ9ECA O  
0064370 30241067121735571201 34003057107612073100 35373024101706125037 00011067111004030100 KTH J02.JA1 X.H JGY 24XTHUFJ/4 AH IHDOA  
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0064414 05433005043302004066 30043457010032431400 34403001056314370200 37740460010033621400 E8XED0B 5 XD1.A Z8L 15XAE L4B 4 D A O L  
0064420 04545700344430050422 37030520370203523057 12171010354030241207 31401640342450005103 D= . 19XEDR4CEP4BC)X.J0HH25XTJGY5N51T/ IC  
0064424 02004320143754003525 02003774035414003445 14010100350430450474 14023401306010143361 8 BPL4= 2UB 4 C=L 1+LAA 2DX+D LB1AX HLU  
0064430 31436301526114023543 17050755200000010440 30431110054730055400 35253052044554640002 YB A) LB28DEG P ADDX81HE\*XE= 2UX)D+= B  
0064434 02002755050434450100 35041400344330050511 30523454020027555400 35253054345202002673 B W ED1+A 2DL 18XEE1X)1-B W= 2UX=11B V  
0064440 01003501010035670200 350520000000034102000 000034112000000003412 20001000341330023414 A 2AA 2 B 2EP 1HP 11P 1JP H 1KX81L  
0064444 20003611170162101701 63703655305710733466 32360524406331360411 02002553303610710514 P 310A HOA 3 X.H 1 Z3ET5 Y3D1B U1X3H EL  
0064450 30311013071115203531 14003466302422000377 34243052546400020100 35670000000000000000 XYNKGIIMP2YL 1 XTR C 1TX)= BA 2  
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0064540 14000361305713171611 34571607340430651126 04463063344230223405 30233467140034030100 L C X.KONIL.NGIDX IVD-X 17XRI/XS1 L 1CA  
0064544 42462000431234455700 37620100431734013045 54004313560037623046 10143445106334513060 7-P 8J1+. 4 A 801AX+- 8K, 4 X-HL1+H 1IX  
0064550 10143361314332471006 32510505300102003774 03421402345330511014 31476153527320005273 HLO Y82+HFZ(EEXAB 4 C7LB1SX(HLY\* \$) P J  
0064554 34073001020037743051 10143147635352732000 52613407035115010100 43773062047330370505 1GXAB 4 X(HLY\* \$) P J 1GC(MAA 8 X D X4EE  
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0064574 10763451010033525065 47675400451201004511 56003357305412020565 30651126046214370200 H 11A 0J/ \* = +JA +I, 0.X-JBE X IVD L4B  
0064600 37740503010034261400 34243703360530650546 01003362500051030200 43200322370504043653 4 ECA 1VL 1T4C3EX E-A 0 / (CB 8PCR4E0D3\$  
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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0065364 34002000060035131063 35123700057130521073 12033401043030511107 05251466617027653001 I P F 2KH 2J4 E XJH JCIADXX(IGEUL W XA  
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0065570 33271014536127705400 21463330050550002144 33610445142334220342 01002717030712400405 OWHL3 W = Q=OXEE/ Q90 D+LS1RC7A WOCGJ5DE  
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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

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0066000 10673437030212323037 12010302376130220525 02002662020014040200 21110417101606201013 H 14CBJZX4JACB4 XREUB V B LDB QIDOHNFPHK  
0066004 07161403344514175400 21411400343734611401 03343023101206031433 34223022040603020525 GNLC1+L0= 06L 141 LAC1XSHJFCLO1RXRDFCBEU  
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0066020 01002147010030740200 24222000215500553067 04710100110417100621 16070506200021706262 A Q\*A X B TRP Q EEX D A IDUHFONGEFP Q  
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0066040 03603052121004553052 10110752030610063155 10063166601030140324 16043414100131141002 C X)JHD X)HIG)CFHFY HFY HXLCINDILHAYLHB  
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0066104 27720100246701002556 30615400215073132772 66132565050275535400 21510302223330245400 W A T A U,X = Q/ KW KU EB \$= Q(CBROXT=  
0066110 21473021220057773421 30522200737734522000 26102300500004072000 20003521200004003552 Q\*XQR . 1QXIR 1JP VHS / DGP P 2OP D 2)  
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0066124 25560100267430612300 50040402140435615400 26115300270004045000 21411217546127713061 U,A V X S /DDBLD2 = V1\$ W DD/ 06JO= W X  
0066130 54612766302754612767 30305461277030611200 35610341540024241400 01002736306112010370 = W XW= W XX= W X J 2 C6= TTL A W3X JAC  
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0066154 56002424010027133000 11010573366103713051 11110403140234412000 40540200150004103036 , TTA WKX IAE 3 C X11DCLB16P 5-B M DHX3  
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0066204 07233021120104205000 4052540027320121240 04111424340150013047 540127403701067222000 GSXQJADP/ 5)= WZXQJ5DILT1A/AX\*-AW54AF P  
0066210 03025400246114005400 26102000306154002611 30521240050354002727 01003412200053005400 C B= T L = VHP X = VIX)J5EC= WWA 1JP 1 =  
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0066220 54002742200027370310 30411101047220001400 54002357540023603041 11000410141355002710 = W7P W4CHX6IAD P L = S.= S X6I DHLK WH  
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0066230 23001400540022571203 55002331200030655400 22762000276554002456 54002553304117020711 S L = R.JC SYP X = R P W = T.= U1X608GI  
0066234 30071202040215552100 17715400234730071202 04152000346154002305 30411102050520003052 XGJBDBM Q O = S\*XGJBDM 1 = SEX6IBEEP X)  
0066240 54002323033330070531 50002137107410023352 12143352345212140510 14005400216120002215 = SSCOXGEY/ Q4H H80)JLO1)JLEHL = Q P RM  
0066244 54002163305212141104 04041400540026653041 17020707300712021102 05035400235630411103 = Q X)JL1DDDL = V X60BGXGJB1BEC= S,X6IC  
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0066254 21612000221554002163 20777677550022660307 30070505200035145400 22673021120103103041 Q P RM= Q P R CGXGEEP 2L= R XQJACHX6  
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0066270 21371007070420000400 35523021220037772300 40003421302414000407 30361071170204021602 Q4HGGDP D 2)XQR 4 S 5 1QXTL DGX3H OBDBNB  
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0066314 25700000436006344667 12104766100050020624 50230400516202045211 04005216020052570400 U 8 F1- JH+ H /BFT/SD ( BUIID JNB ).D  
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0066714 31173427020005600604 14010100261040270504 50270001043034071006 07254027040650270001 Y01WB E FDIAA VHSWED/W ADX1GHFGU5WDF/W A  
0066720 10025127000116033127 54277776210005025200 31160605502777760100 24330200056614005427 HB(W ANCYW=W Q EB) YNFE/W A TOB E L =W  
0066724 77765000311734270100 24110100251030653263 05163064326205135000 30371013060301002354 / Y01WA T1A UHX Z ENX Z EK/ X4HKFCA S=  
0066730 20000100020013223064 10063155100631656010 36651063356430673265 05103066326405053060 P A B KRX HFY HFY H3 H 2 X Z ENX Z EEX  
0066734 34643061346536451410 34040100251001002562 30302300224104173061 32650510306032640505 1 X 1 3+LH1DA UHA U XXS R6DUX Z ENX Z EE  
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0066744 01050106010701100111 01120113011401150116 01170120012101220123 01240125012601270130 AEAFAHAHAIAJAKALAMANAQAPQARASATAUAVAWAX  
0066750 01310132006000610062 00630064006500660067 00700071005300550052 00570050005100440075 AYAZ \$ ) / ( 9  
0066754 00400054005600400133 01350045004201370041 00460047007700740076 01000134013600730340 5 = , 8A0A2 + 7A4 6 - \* A A1A3 C5  
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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSOI - V2.0  
NUS 1-HJ03T/R2B.

79/10/30. 15.19.49.  
NOS 1.4 STUDY DUMP.

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RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.49. PAGE 71  
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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

EXPRESS 11

DSGI - V2.0  
NDS 1-8J03T/R2B.

79/10/30. 15.19.49.  
NDS 1.4 STUDY DUMP.

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RA = E,35700,76000. EXPRESS 11 DSDI - V2.0 79/10/30. 15.19.49. PAGE 73  
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0071050 30111377056202000513 30101007065514000100 14654502360140013402 30521710057101001552 XIK E B EKXHHGF L A L +B3A5A1BX10HE A M)  
0071054 14666040305210710571 20001565340103601144 11461150115215500000 L 5X1H E P M 1AC 191-I/IIM/ 9A1 R /  
0071060 02132320723342715700 02046235021323207233 42715671570002046235 02132320067233427157 8KSP 07 . BD 2BKSP 07 , . BD 2BKSPF 07 .  
0071064 00000204622702132320 06723342715671570000 02046227021323202225 72334271567157000204 8D WBKSPF 07 , . BD WBKSPRU 07 , . BD  
0071070 62320306227100004142 63370310050313552017 11162455233123240515 57000206642003171624 ZCFR 67 4CHECK POINT SYSTEM. BF PCONT  
0071074 11162505723342715700 02046240032071567157 00000204635103227156 71570000020463510401 INUE 07 . BD 5CP , . BD (CR , . BD (DA  
0071100 24055777000042316247 04013106111405567157 00000207625504050225 07570000400050360405 TE. 7Y \*DAYFILE, . BG DEBUG. 5 /3DE  
0071104 14013156740002106227 04110114567156740000 02036227041123010214 05565572011677000213 LAY, BH WDIAL, . BC WDISABLE, AN BK  
0071110 62270411230102140556 55721732770002146227 04112320140131567157 00000222622704172716 WDISABLE, OZ BL WDISPLAY, . BR WDOWN  
0071114 56031071570012266264 04172716560310715605 21715700122662640526 11032456715700000223 ,CH . JV DOWN,CH ,EQ . JV EVICT, . BS  
0071120 62270571735645467371 57005141622705717356 45467356715700005141 62270571735645467372 WE ,+- . (6 WE ,+- , . (6 WE ,+-  
0071124 33375671570051416227 05717356454673047400 51416301000000000000 44014000622200000037 04, . (6 WE ,+- D (6 A 9A5 R 4  
0071130 02006313020054251757 04173024340436640200 54253024340130061014 33076020300154040020 8 KB =UD.DOXT1D3 B =UXT1AXFHLOG PXA=D P  
0071134 30061014330762200100 63520200631336641466 60201420340140640413 10064401366440640406 XFHLOG PA JB K3 L PLP1A5 DKHF9A3 5 DF  
0071140 45013664360111250564 30061014310762200100 63520100631202005425 11570510200046773464 +A3 3A1UE XFHLYG PA JA JB =UI.EHP - 1  
0071144 02005744020054253047 16206010301312771006 31243407106335233013 10713123127734063064 B .98 =UX\*NP HXKJ HFYTI1GH 2SXXH YSJ 1FX  
0071150 34053664034030055400 63611400020045122000 63603405340140051745 04171701050301006435 1E3 C5XE= L B +JP 1E1A5EO+U00AEC A 2  
0071154 01004421460517430730 47051157040714334405 37052177310006642000 47723402400254020001 A 9Q-E08GX\*EI.DGL09E4EQ Y F P + 185B=B A  
0071160 3702320507214345402 00013660360103124705 17330607144244053705 21773100066736014001 48ZEE L1=B A3 3ACJ\*E00FGL79E4EQ Y F 3A5A  
0071164 17040502360130012177 31000100441700000000 44014100622200000051 02006327020054251757 00EB3AXAQ Y A 90 9A6 R (B WB =UD.  
0071170 04153024340436640200 54253024340330076020 30035404002030076220 34121400341130066020 DMXT1D3 B =UXT1CXG PXC=D PXG P1JL 1IXF P  
0071174 30220503010044143024 34143023220007772300 30003413144502005625 01006443020063273664 XRECA 9LXTLXSR G S X 1KL+B ,UA 88 WB  
0071200 14666020142034014064 04131006440136644064 4064501366436011125 05640100625101006326 L PLP1A5 DKHF9A3 5 DF+A3 3A1UE A (A V  
0071204 02005425115705102000 46773464020057440200 542530463334504153047 16256010301312071011 B =UI.EHP - 1 B .98 =UX-O+DMX\*NU HXKJGHI  
0071210 35241063352330131074 35231401342214066030 30341074322307100511 30341207101132240702 2TH 2SXXH 2SLA1RLF XX1H ZSGHEIX1JGHI2GB  
0071214 05030100441430451007 21000100622034061620 34071466602030063412 16016220140034112000 ECA 9LX+HQG A P1FN1GL PXF1JNA PL 1IP  
0071220 60003413304633450402 30463414144502005625 30643405366401006326 30055400645214000200 1KX-O+DBX-1LL+B ,UX 1E3 A VXE= JL B  
0071224 45122000645134053401 40051745041217010437 01004421460517430724 14334405370521773077 +JP (1E1A5EO+DJOAD4A 9Q-E08GTLO9E4EQ X  
0071230 06671472340550054700 54054701370506721434 54004700366036010312 47051733060714424405 F L 1E/E\* =E\*A4EF L1= + 3 3ACJ\*E00FGL79E  
0071234 37052177307706673601 40011704050236013001 21773100010044170000 44014200622200000040 4EQ X F 3A5A0DEB3AXAQ Y A 90 9A7 K 5  
0071240 02005425302434250100 44210200640130243411 14040200562503660200 64016500442675400371 B =UXT1UA 9QB AXT1ILDB ,UC B A 9V 5C  
0071244 02006401366402005425 14006400442630245400 6267740626603610200 64016400442674400371 B A3 B =UL 9VXT= 5 C B A 9V 5C  
0071250 02006401670044266500 44267040342503660200 64016600442665004426 30257240036602006401 B A 9V 9V 51UC B A 9V 9VXU 5C B A  
0071254 64004426774020001477 17010576640044217740 17000361140503021404 10113404020054252000 9V 5P L OAE 9Q 50 C LECHLDH1DB =UP  
0071260 01236010301404243020 31213122312305173024 17220614302410063411 30043413304534461445 AS HXLDTPYQYRYSEUXTORFLXTHF1IXD1KX+1-L+  
0071264 02005625034001004414 01006400020054253024 36024002045134014001 17400614200064343401 B ,UC5A 9LA B =UXT05FLP 11AP 31B3A5A  
0071270 04053324057301004414 36024002045134014001 13373324440103670010 00006247625162616266 DEOTE A 9L385BD11A5AK40T9AC H \* (

A C E J L O S U Z 1 1DD MD =  
XB= N2X1IC V X3C 5LC PXQHLYRN\* NOXSOCA  
0071300 30025400163530113403 60266030360360401403 60203021101431221647 02000336301134403014 PFXZN H EBLA1\*L IX51EENLD1JL B C3X115AL  
0071304 20063032167710710502 14013445146660113040 34050516140434121455 14666010304234123406 1617E A O LF1QX OH B EKLD= AEL HX71J1F  
0071310 34413442056201001772 14063417307761171073 02000513140454000105 05143615031261120556 X81GY+) AFGVX51IL B C3, O5XL1-EL3MCJ JE,  
0071314 30433407314552000106 07263040341114550200 03365600175330143446 11323026101431276171 A DP X 22X = IZP 2ZFC IZXVHLYW  
0071320 01000420773000000000 30713532307154001132 02000563060416010442 36153071352710633526 IOXGNA= IY\$ AFDOPXIYB E FDNAD73MX 2WH 2V  
0071324 11333007160154001131 53000106043320301131 37450407010016433046 54001131054254001131 3G18\$ AFEF1G18X-1F174+DGA N8X-- IYE7= IY  
0071330 36073443530001060506 34073443304634063442 11310200056306041601 04563615020005663077 = IZXC 5 I5LW I+P IYB E FDNAD,3MB E X  
0071334 54001132300362406170 11401427617311452000 30041007060301000173 20150424307416226010 OH L HKOE1IXF 4 1JXG1KL88 C3XMDTX NR H  
0071340 63171073140010133305 34113006220037773412 60103613100716356370 3011400343237036230 XIQ OFFLQ1IL58 C3LB H3KHGN2 PYL 124C X  
0071344 30112177001706061421 34111440020003361402 01022457000000000000 42230500765500000021 L IHXQHLYRNC H 1DD ABT. 7SE Q  
0071350 14653410302110143122 16036110750034040455 30164403301754030001 40013412500100013413 5A17EH/ D = TXN1ACFXN9CX0=C A5A1J/A A1K  
0071354 40011142051050000476 54007724301634010306 0041007060301000173 14026004600630041014 L B C3XIK ENXI( EM DXDHGFA A LB D FXDHL  
0071360 14610200033630111377 05103011510005156004 06033706360730061014 33070200776405663004 OED B DE3EH 2DC 4GFC4F3GXFHLOG E XD  
0071364 33050471020077640405 36051063350403663707 43011006331010065301 00010364000076610260 HLOE HA AA HXIK 8AHFOHHF3A AC B  
0071370 10143305621001007701 01007763601030111377 05132000562254007505 02000566200675000200 7EP 158DQ5AR Q EKP ,R= EB E PF B  
0071374 42052000756700000034 400204211000122002100 75003074163563737500 40011220043201007534 D7L CY= AG-BLFIHX H X N2 5AJPDZA L

RA = E,35700,76000. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

SDSI - V2.0 79/10/30. 15.19.49. PAGE 75  
NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP.

0071404 30715500766350007531 22004017540001035000 75333410500001020403 54100001140054000102 X / YR 50= AC/ 01H/ ABDC=H AL = AB  
0071410 14000110000002000566 50007532540001034001 10100740100107135000 75331601340240025400 L AH B E / Z= AC5AHKG5HAGK/ ONA1B5B=

0071414 01022000026244024001 10130736101607302006 75000200044250007531 10140622200075000200 ABP B 9B5AHKG3HNGXPF B D7/ YHLFRP B

0071420 04425000010512100406 14360200033601000114 01007637100507630100 75341400020003363074 D7/ AEJHDFL3B C3A ALA 4HEG A 1L B C3X

0071424 1620601030111220450 50000112540077700000 05763701055730741635 62010351757375310556 NP HXIIRO// AJ= E 4AE.X N2 AC( YE,

0071430 23062000107300000031 24002400020011342000 00000405233523000200 04760100111314440200 SFP H YT T B ILP DES2S B D A 1KL9B

0071434 03360100011434462007 11465400111410635400 11050351010011335000 02603435500002613436 C3A AL1-PG1-- ILH = IEC(A 10/ B 12/ B 13

0071440 20001211340614033506 40061277043533351014 53060001333605655006 00025400111440061071 P J11FLC2F5FJ D202HL\$F A03E /F B= 1L5FH

0071444 12375400110540061064 05163053127710143354 10760404107232560705 14121102010011220100 J4= IE5FH ENX\$J HLO=H DDH Z,GELJIBA IRA

0071450 11330123242311460215 23041146032006051146 04010305114605202215 11464603132011460622 IOASTSI-BMSDI-CPFEI-DACEI-EPRMI--CKPI-FR

0071454 05211150460415201154 46041504115446040520 11524604050411521004 33332161110611161146 EQI/-DMPI--DMDI--DEPI--DEDIHD00Q IFINI-

0071460 40230620112200000000 41041100055100000052 10560100055703140100 05620334010005651400 55FPIR 6DI E( )H,A E.CLA E CIA E L

0071464 34134471020007660370 54000613477107053107 53000631040302000671 14040200075371000612 1K9 B G C = FK\* GEYG\$ FYDCB F LDB G\$ FJ

0071470 05325000056003355400 06451063540006404771 07053107230006300403 02000671407104032000 EZ/ E C2= F+H = F5\* GEYG\$ FXDCB F 5 DCP

0071474 00001135020007537300 06440516500005636600 06517540540006701412 02000753140711000013 12B G\$ F9EN/ E F( 5= F LJB G\$LA K

0071500 05253013052401000667 00003076601030100574 30776204147202000336 37144471310754000631 EUXKETA F X HXHE X DL B C34L9 YG= FY

0071504 03040331540001040200 07663012041202000753 70402200200034130563 14104511307716016010 CDCY= ADB G XJDJB G\$ 5R P IKE LH+IX NA H

0071510 14000200075314047300 00110521500006710100 06517400200005020100 07526400105376001601 L B G\$LD IEQ/ F A F( P EBA G) H\$ NA

0071514 65000747067401001053 01000765500001103410 33130471137710060734 05113010121004067640 G\*F A H\$A G / AH1HOKD K HFG1E1XHHJHDF 5

0071520 16010703640010043077 62041433020003364500 50101035340036103014 17000570307760043010 NAGC HDX DLOB C3+ /HH21 3HXLD E X DXH

0071524 44110340301344710317 06120644065106530662 07220740074707540756 07601003100610231431 91C5XK9 COFJF9F(F\$F GRG5G\*G,G HCMHSLY

0071530 01000263500001031064 21001401540007345000 05545400077401000507 42041100747300000050 A B / ACH Q LA= G1/ E= G A EG70I /

0071534 76102000273103043402 20002331036700001410 34105010750054101055 37100672307762041472 HP WYCD1BP SYC LH1H/H =HH 4HF X DL

0071540 02000336350140011237 34103004321045013010 05672000060752000671 10573410107634125000 B C32A5AJ41HXDZH+AXHE P FG) F H.1HH 1J/

0071544 01020406541005601400 54000102407110711760 06376502757267027570 74023414754414120200 ABDFF=HE L = AB5 H D F4 B 71L 9LJB

0071550 07537050340154000104 14230200075314247103 75360433754177110414 14123400370007121601 G\$ /1A= ADLSB G\$LT C 3D0 6 IDLLJ1 4 GJNA

0071554 06760617640276157403 32770676754001007745 22024003040214021106 11070100774630011015 F FO B M CZ F 5A +RB5CDBL8IFIGA -XAHM

0071560 04700606500075462200 02000464200001645500 77175000755210060715 3001101064410030605 D FF/ -R B D P A O/ JHFGMXAHIF9HCFE

0071564 40022177100006411421 01007746500001010503 50000645440234011554 54000560170354001055 5BQ H F6LQA -/ AAEC/ F+9B1AM= E OC= H

0071570 14430100061006721477 54000103500005635400 05602000106154000563 50000645440230015400 L8A FHF L = AC/ E = E P H = E / F+9BXA=

0071574 06451400540006403707 14043411200002635400 10554002540077653413 30771602637077171601 F+L = F54GLD1IP B = H 5B= 1KX NB DUA

0071600 63700000537001021427 02000336441101000262 00000000751075630613 42231100756200000035 ABLWB C39IA B H FK7SI 2

0071604 50001005126405250200 05662006750002000442 30776370750017016170 75625000750454007564 / AEJDEUB E PF B D7X OA / D=

0071610 50000105120404030100 06725000766134102000 75653402560076223401 40010463401010710200 / AEJDDCA F / 1HP 1B, R1A5AD 5HH B

0071614 76674010127702007667 36104301056554020001 20005755440220067562 02000442034075367546 5HJ B 3H8AE =B AP. 9BPF B D7C5 3 -

0071620 75567562000001007666 34001003330013702100 33334402360203650100 76015000753316013414 , A 1 HCO K Q 009B3BC A / ONA1L

0071624 23000560040214323411 50001065053050007531 12200456400112400434 50007552220007775100 S E DBLZ11/ H EX/ YJPD,5AJ501/ )R G (

0071630 06133410500075534310 44103610500075544310 44104002040444141400 44022000026254007620 FK1H/ \$8H9H3H/ =BH9H5BDD9LL 9BP B = P

0071634 01007567500006132177 10000610401444022000 10564414560010651414 01110610770201040102 A / FKQ H FH5L9BP H,9L, H LLAIFH BADAB

0071640 42271100773200000010 36075000061354000631 30020527560077745000 01010407500005605400 7MI Z H3G/ FK= FYXBW, / AADG/ E =

0071644 05630100067202000566 50000105121004061436 02000336010001141500 01000557000077360000 E A F B E / AEJHDFL3B C3A ALM A E. 3

0071650 34150200107300000037 20000112603014016010 30132200030034456416 11265700120157001202 1MB H 4P AJ XLA HXKR C 1+ NIV. JA. JB

0071654 65151155144360103013 10160730305205260200 12550200120520007000 02001200344020002166 MI L8 HXKHNGXX)EVB J B JEP B J 15P Q

0071660 02001200304504052000 22620200120030400405 20351504020004761444 02000336140034313030 B J X+DEP R B J X5DEP2MDB D L9B C3L 1YXX

0071664 22003777343020000112 62300100011401001177 72167016037301001204 30450474303417120771 R 4 1XP AJ XA ALA I N NC A JDX+D X10JG

0071670 20004262020012002000 10130200120004602000 13040200120005533634 10630403150034342000 P 7 B J P HKB J D P KDB J E\$31H DCM 11P

0071674 20130200120020004260 02001200200022600200 12000100120401001254 30331712077320004166 PKB J P 7 B J P R B J A JDA J=X00JG P 6

0071700 02001200200010030200 12000462200012670200 1200055363310630403 15003433200020030200 B J P HCB J D P J B J E 30H DCM 10P PCB

0071704 12003045044220004250 02001200200022500200 12000100125400000000 00000000000000000000 J X+D7P 7/B. J P R/B J A J=

0071710 14040300000000000104 5000000000100000101 61100000015120000005 51100000062020610611 LDC AD/ A AA H A(P E(H FPP FI

0071714 6272777743435213777 07700001236167777775 06600001235462054710 61600000106100046000 88 Q4 G AS F AS= E\*H H D

0071720 54771676610560000107 51700000645110000003 71600000307170000011 1151126161271754610 = N E AG( (H C X IIMIVNJ -H

0071724 53760706077677674700 54671546615466154761 51170001217160000001 76200010000013146000 \$ GFG \* = M= = M\* (O AU A P H KL

0071730 01000011212065046000 0100001466100046000 02012311035300000000 2432225165300000000 DIQP D A A9 D BASIC\$ TSRUN\$

0071734 71100002007660046000 01000001726100046000 71600411212065046000 01000001446100046000 H B D A A D DIQP D A A9 D

0071740 10611010000014446000 51200001407212000000 00000000006100046000 20652126624320120252 H HH L9 (P A5 J D P QV 8PJR)

0071744 12662516000014010611 51600001375110000136 04000001276100046000 14042220000000000137 J UN LAFI( A4IH A3D AW D LDRP A4

RA = E,35700,76000. EXPRESS 11 USDI - V2.0 79/10/30. 15.19.49. PAGE 76  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-HJ03T/R28. NOS 1.4 STUDY DUMP.

0071750 00000000000000000000 00000000000000000000 54110201230331000143 013000000006100046000 -IBASCY A8AX D  
0071754 04000001476100046000 000000000006100046000 511000000010311000145 54610040000014346000 D A\* D D (H ACI A\*= 5 LI  
0071760 51100001411061146000 51100000660321000152 51100001421061146000 51600001435110000001 (H A6H L (H CQ A)(H A7H L ( A8(H A  
0071764 10611010000014246000 20652010000014446000 51100000010311000155 000000000006100046000 H HH LT P PH L9 (H ACI A D  
0071770 51100000010311000156 71602203140400000154 71102203142760120652 12662010000014446000 (H ACI A, RCLD A= HKCLW JFIJ PH L9  
0071774 000000000006100046000 53120201730331000163 03010001635110000001 03010001610400000164 D \$JBA CY A CA A (H ACA A D A  
0072000 20151460006100046000 71601523072065212661 01000001446100046000 000000000006100046000 PML D MSGP QV A A9 D D  
0072004 20630121617361020123 03210001672015113116 20636516000017774660 12116040000017046000 P AQ BASCO A PHIYNP N U - JI 5 OD  
0072010 00000000000000000000 55111414050701145503 17152011140522552320 05031106110504570000 ILLEGAL COMPILER SPECIFIED.  
0072014 00000000000000000000 01022001411406011073 01040301411406031073 02012401411406151073 ABPA6LFAH ADCA6LFCH BATA6LFMH  
0072020 03111744647703401073 03152301411406271205 03200401411406341073 03201501411406451073 CIO9 C5H CMSA6LFWJECPCA6LFIH CPMA6LF+H  
0072024 03203401411406531073 03223401411406661073 03253001411407011073 03261401411407021073 CP1A6LFSH CRIA6LFH CUXA6LGCH CVLA6LGBH  
0072030 04040601411407101073 04112301411407121073 04170701411407261073 04232001411407321073 DDFA6LGHH DISA6LGJH DOGA6LGJH DSPA6LGZH  
0072034 04233401411407431073 05141501411407521073 05302501411407541073 05310501411407561073 DS1A6LG8H ELMA6LGJH EXUA6LG+H EYEA6LG+H  
0072040 06042001411407661073 06242001411410001073 10061501411410071073 11140401411410111073 FDPa6LG H FTPA6LH H HFMA6LGH ILDA6LHH  
0072044 11152301411410131073 14040445274404251073 14042145337101671073 14042245265700651073 14042245265700651073 LMSA6LHKH LOD+WDUH LDQ+O A H LDR+V. H  
0072050 14061545474402741073 14203401411410251073 15140401411410351073 17252401411410431073 LFM+\*9B H LPIA6LHUH MLDA6LH2H OUTA6LH8H  
0072054 17354101411410461073 20061546035607101073 20062501411410611073 20112001411410711073 Q26A6LH-H PFM-C,GHH PFUA6LH H PIPA6LH H  
0072060 21010347030703621073 21012001411410771073 21061501411411031073 22041501411411141073 QAC+CGC H QAPA6LH H QFMA6LICH RDMA6LILH  
0072064 22202645610002771073 23022001411411211073 23061501411411231073 23112001411411341073 RPV+ B H SBPA6LIQH SFMA6LISH SIPA6LIH  
0072070 23141401411411441073 23152001411411551073 23200401411411601073 23241501411411611073 SLLA6LI9H SMPA6LI H SPDA6LI H STMA6LI H  
0072074 24032345112410431073 24143001411411651073 24150701411411671073 26051201411411731073 TCS+ITH8H TLXA6LI H TMA6LI H VEJA6LI H  
0072100 27221501411411761073 30232001412700031073 33012501412700060000 33012645432601730000 WRMA6LI H XSPA6W CH OUA6W F OAV+83A  
0072104 33020645412500760000 33022001412700070000 33031101412700150000 33040645422301130000 OBF+6U O8PA6W G OCIA6W M ODF+7SAK  
0072110 33060145462300240000 33201101412700160000 33220645464700750000 33222045453100720000 OFA+S T OPIA6W N ORF+\*+ ORP+\*Y  
0072114 33241101412700170000 33261201412700200000 34011245076401401073 34030401412700231073 OTIA6W O OVJA6W P 1AJ+G A5H LCDA6W SH  
0072120 34031201412700351073 34031345356001761073 34040346647104611073 34040447127700541504 1CJA6W 2H 1CK+2 A H 1DC- D H 1DD+J -MD  
0072124 34041447075701001073 34042301412700441073 34050401412700571073 34111746715202301073 1DL\*G.A H 1DSA6W 9H 1EDA6W .H 1IO- 1BXH  
0072130 34112301412700701073 34142346635201171073 34142401412700741073 34150145375601471073 1ISA6W H 1LS- 1A0H 1LTA6W H 1MA+4,A\*H  
0072134 34150247165000371073 34152201412700771073 34152446471203541073 34221145637703551073 1MB\*N/ 4H 1MKA6W H 1MT- \*JC-H 1RI+ C H  
0072140 34221745722004701073 34222001412701071073 34231101412701101073 34231246740203511073 1RO+ PD H 1RPA6WAGH 1SIA6WANH 1SJ- BC(H  
0072144 34232046775303341073 34240146317602551073 34240401412701124176 34242501412701201073 1SP- \$C1H 1TA-Y B H 1TDA6WAJ6 1TEA6WAPH  
0072150 34241601412701304176 34241746377603661073 34242001412701361073 34242301412701401073 1TNA6WAX6 1TO-4 C H 1TPA6WA3H 1TSA6WA5H  
0072154 35030144703700623227 35030244712101211600 35030344724201752422 35030444743703751600 2CA9 4 ZW2CB9 QAQN 2CC9 7A TR2CD9 4C N  
0072160 35030545003400344362 35030645007002423227 35030745033203364362 35031045067000201600 2CE+ 1 18 2CF+ B7ZW2CG+CZC38 2CH+P PN  
0072164 35031145071000541600 35031201412701463227 35031301412701474575 35031401412701514625 2CI+GH -N 2CJA6WA-2W2CKA6WA\*+ 2CLA6WA(-U  
0072170 35110401412701535350 35111601412701545327 35112001412701564622 35112101412701574622 2IDA6WA\$%/2INA6WA-\$W2IPA6WA,-R2IOA6WA.-R  
0072174 35112201412701615350 351140401412701621073 35150101412701632117 35150201412701652117 2IRA6WA \$/2LDA6WA H 2MAA6WA QO2MBA6WA QO  
0072200 35150301412701661073 35150401412701671204 35222001412701731073 35230501412702111136 2MCA6WA H 2MDA6WA JD2RPA6WA H 2SAA6WA I3  
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0072210 35230601412702121136 35230701412702131136 35241601412702321073 35241746436403263231 2SFA6WBJ132SGA6WBG132SHA6WBM132SIA6WBDI3  
0072214 35240401412702201073 35241601412702321073 36010301412702604635 36010401412702611501 2TDA6WBPB 2TNA6W8ZH 2TO-8 CVZY3AAA6W89N\*  
0072220 36010201412702511647 36010301412702604635 36010401412702611501 36010545216703034635 3ABA6WB(N\*3ACA6WB -23ADA6WB MA3AE+Q CC-2  
0072224 36010645247201655056 36010701412702621647 3601100141270265056 36020101412702663267 3AF+T A /,3AGA6WB N\*3AHA6WB /,3BAA6WB Z  
0072230 36020201412702703267 36020301412702723267 36020401412702743267 36020501412702753267 3BBA6WB Z 3BCA6WB Z 3BDA6WB Z 3BEA6WB Z  
0072234 36020601412702764051 36030101412703001610 36030201412703031610 36030301412703061610 3BFA6WB 513CAA6WC NH3CBA6WCCNH3CCA6WCFNH  
0072240 36031301412703072151 36040101412703121446 36043101412703144056 36043201412703154056 3CA6WCGQ13DAA6WCJL-3DYA6WCL5,3DZA6WCM5,  
0072244 36060101412703173145 36060201412703253145 36110101412703272527 36110201412703313746 3FAA6WCQY+3FBA6WCUY+3IAA6WCWU31BA6WCY4-  
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0072264 36150401412703706575 36150501412703727275 3615101412704002142 36151201412704012142 3MDA6WC 3MEA6WC 3MFA6WC W 3MG-J YQ7  
0072270 36151046531701436575 36151101412704127465 36151601412704172520 36151701412704275676 3MH-10A8 3MIA6WD Q73MJA6WDAQ73MKA6WDFQ7  
0072274 36151446546203352142 36151501412704142765 36152201412704403750 36152301412704453750 3ML=- C2Q73HMA6WDLW 3MNA6WDOUP3MUA6WDW,  
0072300 36152001412704302142 36152101412704352405 36152601412704563045 36152701412704623753 3MPA6WDXQ73MQA6WD2TE3MKA6WD54/3MSA6WD4/  
0072304 36152446601703332142 36152501412704532772 36162301412704743773 3MT- UCQ73MUA6WD\$W 3MYA6WD,X+3MYA6WD 4\$  
0072310 36153001412704663753 36153101412704732335 36162301412704743773 3MXA6WD 4\$3MYA6WD S23NSA6WD 4 3PA-J F NA

RA =	E,35700,76000.	EXPRESS 11	DSOI - V2.0	79/10/30. 15.19.50.	PAGE 77
0000000	CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.		NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP.	
0072314	36200246214701064657	36200301412704764657	36200446225502204657	36200501412705001477	3PB-Q*AF-.3PCA6WD -.3PD-R BP-.3PEA6WE L
0072320	36200601412705054657	36200746247502014657	36201001412705071477	36201146267601721615	3PFA6WEE-.3PG-T BA-.3PHA6WEGL 3PI-V A NM
0072324	36201201412705154657	36201346307001061673	36201401412705162375	36201501412705171615	3PJAGWEM-.3PK-X AFN 3PLA6WENS 3PMA6WEUNM
0072330	36201601412705214657	36201701412705226771	36202001412705234657	36210101412705253163	3PNA6WEQ-.3POA6WER 3PPA6WES-.3QAA6WEUY
0072334	36210201412705273163	36210301412705303163	36210401412705323163	36212201412705345773	3QBA6WEMY 3QCA6WEXY 3QDA6WEZY 3QRA6WE1.
0072340	36212347067100663363	36212401412705353363	36212501412705403363	36220601412705425436	3QS*F 0 3QTA6WE20 3QUA6WE50 3RFA6WE7=3
0072344	36220701412705445436	36221045675402445436	36221101412705465436	36222045771004034404	3RGA6WE9=33RH+ *B9=33RIA6WE--33RP+ HDC9D
0072350	36222146031300434404	36230101412705473710	36233201412705503063	36240101412705542554	3RQ-CK 89D35AA6WE*4H3ZA6WE/X 3TAA6WE-U=
0072354	36240201412705552554	36240301412705572554	36240401412705632554	36240501412705657001	3TBA6WE U=3TCA6WE.U=3TUA6WE U=3TEA6WE A
0072360	36240601412705664071	36240701412705672554	36241001412705712554	36241101412705722554	3TFA6WE 5 3TGA6WE U=3THA6WE U=3TIA6WE U=
0072364	36241246357002062554	36241346345301152554	3624150141270572554	3624150141270572554	3TJ-2 8FU=3TK-11AMU=3TLA6WE U=3TMA6WE U=
0072370	36241601412706012554	37040101412706023000	37040201412706103463	37040301412706155102	3TNA6WFAU=4DA6WFBX 4DBA6WFH1 4DCA6WFM10
0072374	37040401412706164426	37040501412706214426	37040601412706245102	37040701412706265102	4DDA6WFN9V4DEA6WFO9V4DFA6WFT184DGA6WFI18
0072400	37041001412706315102	40020101412706326762	40020201412706336762	40032501412706344473	4DHA6WFI185BAA6WFZ 5BBA6WFO 5CUA6WFI9
0072404	40060601412706404473	40061001412706454473	40110101412706524205	40110301412706534205	5FFA6WFI9 5FHA6WFI9 5IAA6WFI 7E5ICA6WFI7E
0072410	40110401412706544205	40110501412706554205	40110701412706574205	40111001412706614205	5IDA6WFI=7E5IEA6WFI 7E5IGA6WFI.7E5IHA6WFI 7E
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0072424	40232601412707136202	40373401412707154473	40403001412707224473	40413001412707274473	5SVA6WGI B541A6WGM9 55XA6WGR9 56XA6WGW9
0072430	40423001412707344473	40430601412707414473	40431001412707464473	40433001412707534473	57XA6WGI9 58FA6WGI9 58HA6WGI-9 58XA6WGI9
0072434	41041147146100510556	42041147153400477500	42052047137500337574	42230547135400207662	6DI*L (E,7DI*M1 * 7EP*K 0 7SE*K= P
0072440	4223114716040037567	42271147164100077737	43300101412707601462	43300201412707701577	7SI*ND 1 7WI*N6 G 48XA6WGI L 8XBA6WGI M
0072444	43300301412707751577	44010101412707760000	44013447106000476227	44014047113000366227	8XCA6WGI M 9AAA6WGI 9A1*H * W9A5*IX 3 W
0072450	44014147116700506227	44014247124000376227	44020101412710406222	44050101412710727001	9A6*I / W9A7*J5 4 W9BAA6WH5 R9EAA6WH A
0072454	44060101412711317436	44070101412711336336	44110101412711441773	44120101412711707773	9FAA6WII 39GAA6WIO 39IAA6WII9D 9JAA6WII
0072460	44320101413000023111	44330101413000125703	00000147143000311073	00000000000000000000	9ZAA6X BYI90AA6X J.C A*LX YH
0072464	02032300000000000000	00000000000040040736	02030600000000000000	00000000000040040770	BCS 5DG3BCF 5DG
0072470	06150400000000000000	00000000000040041022	23312305041124000001	05720000000040041102	FMD 5DHRVSSEDIT AE 5DIB
0072474	400400000000000000236	01202005160400000014	00170000000040050345	01242401031000000000	5D 01242401031000000000
0072500	03100116070500000000	04050611160500000000	07052400000000000000	16052700000000000000	CHANGE B3APPEND L O SEC*ATTACH
0072504	17140400000000000000	20010313160115000000	20052215112400000000	20252207050000000000	DEFINE GET NEW
0072510	22052014010305000000	23012605000000000000	40100000000000000000	20060124033400000000	OLD PACKNAM PERMIT PURGE
0072514	00000000000040050362	20060301243400000000	00000000000040050405	20060317203134000000	REPLACE SAVE SH PFATCI
0072520	00000000000040050452	20060425152034000000	00000000000040050476	20061417010434000000	SEC PFCAT1 5EDEFPCOPY1
0072524	00000000000040050554	20062300000000000006	00260000000040050636	20061417010400000000	5EDI1PFDUMPI SED PFL0ADI
0072530	20060425152000000000	20060301240000000000	20060124030000000000	20060317203100000000	SEE=PFS F V 5EF3PFL0AD
0072534	400400000000000000155	20252207011414000000	00160000000040050663	03171606110700000000	PFDUMP PFCAT PFATC PFCOPY
0072540	00360000000040050725	11162324011414000001	01060000000040050750	400400000000000000125	5D A PURGALL N SEF CONFIG
0072544	152311000000000000002	00630000000040050754	06140127000000000000	400400000000000003726	3 5EGUINSTALL AAF 5EG/5D AU
0072550	152205030000000000001	00300000000040051013	00400000000000000106	01030317251624000003	MSI B 5EG=FLAW 5D 4V
0072554	00060000000040060127	06011511143100000000	25230522000000000000	401600000000000000252	MREC A X 5EHK5D AFACCOUNT C
0072560	03100122070500000001	00220000000040060134	404600000000000001014	112306000000000000001	F 5FAWFAMILY USER SN B)
0072564	00220000000040060155	400400000000000000125	15170426011400000003	01770000000040060170	CHARGE A R 5FA15- HLISF A
0072570	14111511242300000000	20012323271722000000	40140000000000014372	20221706111405000001	R 5FA 5D AUMODVAL CA 5FA
0072574	01370000000040060326	404400000000000002516	23062300000000000000	00000000000040060417	LIMITS PASSWOR SL AB PROFILE A
0072600	05353333032000000000	00400000000040060635	13242304152000000000	00710000000040060651	A4 5FCV59 UNSFS 5FDD
0072604	14110224012313000000	02510000000040060666	40212401040506000000	00000000000040061025	E200CP 5 5FF2KTSDMP 5FFI
0072610	04012401150120000000	00000000000040061170	04020617221500000000	00000000000040070104	LIBTASK B1 5FF DATADEF 5FNU
0072614	24010616011500000000	00000000000040070254	24010616011501000000	00000000000040070402	DATAMAP 5FI DBFURN 5GAD
0072620	24010616011502000000	00000000000040070406	24010616011503000000	00000000000040070411	TAFNAM 5GB=TAFNAMA 5GDB
0072624	24010616011504000000	00000000000040070414	24010616011505000000	00000000000040070417	TAFNAMB 5GDTAFNAMC 5GDI
0072630	24010616011506000000	00000000000040070422	24010616011507000000	00000000000040070425	TAFNAMF 5GDLTAFNAME 5GDU
0072634	24010616011510000000	00000000000040070430	24010616011533000000	00000000000040070431	TAFNAMH 5GURTAFNAMG 5GDU
0072640	24010616011534000000	00000000000040070514	24010616011535000000	00000000000040070611	TAFNAMI 5GDTAFNAME 5GDU
0072644	24010624230000000000	00000000000040070624	24010624230100000000	00000000000040070732	TAFNAMI 5GDTAFNAME 5GDU
0072650	24010624230200000000	00000000000040070736	24010624230300000000	00000000000040070741	TAFNAMI 5GDTAFNAME 5GDU
0072654	24010624230400000000	00000000000040070744	24010624230500000000	00000000000040070747	TAFNAMI 5GDTAFNAME 5GDU

0072660	24010624230600000000	00000000000040070752	24010624230700000000	00000000000040070755	TAFTSF	5GG1TAFTSG	5GG
0072664	24010624231000000000	00000000000040070760	24010624233000000000	00000000000040070761	TAFTSH	5GG TAFTSO	5GG
0072670	24010624233400000000	00000000000040071044	24010624233500000000	00000000000040071141	TAFTS1	5GH9TAFTS2	5G16
0072674	0123031111000000002	000300000000040100323	03230524000000000000	20012211243100000000	ASCII	5HCSCSET	PARITY
0072700	26011416052400000000	000000000000040100325	24051405300000000001	05020000000040100443	VALNET	5HCUTELEX	AEB 5H08
0072704	40040000000000000000	24051405303400000000	00000000000040100546	24051405303500000000	5D	TELEX1	5HE-TELEX2
0072710	000000000000040100643	24051405303600000000	00000000000040100644	11010605300000000001	5HF8TELEX3	5HGF5D	5HF9IAFEX A
0072714	047300000000040100706	40040000000000000000	11010605303400000000	00000000000040101001	0	IAFEX1	5HHA
0072720	11010605303500000000	00000000000040101101	11010605303600000000	00000000000040101102	IAFEX2	SHIAIAFEX3	5HIB
0072724	11010605303700000000	00000000000040101112	02140116130000000001	00160000000040101156	IAFEX4	SHIJBLANK	A N 5HI,
0072730	404400000000000001343	15010716052400000000	01000000000040101172	15010716052434000001	59	KBMAGNET	A 5HI MAGNET1 A
0072734	410000000000040110011	40040000000000000000	01232311071600000010	00740000000040110017	6	5I 15D	ASSIGN H 5I O
0072740	14010205140000000000	22052125052324000000	22052317252203000000	26231600000000000000	LABEL	REQUEST	RESOURC VSN
0072744	14061500000000000000	20061500000000000000	22052100000000000000	40640000100000000224	LFM	PFM	REQ 5 H BT
0072750	06112215414130000000	000000000000040110251	03012401141707000001	01070000000040110304	FIRM66X	SIBICATALOG	AAG 5ICD
0072754	40010000000000000000	03012414112324000000	00420000000040110322	03132000000000000002	5A	CATLIST	7 5ICRCKP B
0072760	01020000000040110347	23062000000000000000	40240000000000000253	03171515051624000023	AB	5IC+SFP	5T BSCOMMENT S
0072764	00150000000040110366	05301124000000000000	15061400000000000000	15170405000000000000	M	5IC EXIT	MFL MUOE
0072770	16170530112400000000	16172205222516000000	17160530112400000000	17162327000000000000	NOEXIT	NORERUN	ONEXIT ONSW
0072774	17060623270000000000	20221724050324000000	22052225160000000000	22061400000000000000	OFFSW	PROTECT	RERUN RFL
0073000	22171414172524000000	23052401231400000000	23052412231400000000	23052420220000000000	ROLLOUT	SETASL	SETJSL SETPR
0073004	23052424140000000000	23251100000000000000	23271124031000000000	25230503202500000000	SETTL	SUI	SWITCH USECPU
0073010	03011414000000000002	00450000000040110402	07172417000000000000	40040000000000000000	CALL	B +	5IDUGOTO 5D 5
0073014	11060000000000000001	00160000000040110415	40400000000000000000	03171626052224000000	IF	A N	5IOM55 CONVERT
0073020	00760000000040110426	03172031000000000006	01220000000040110444	03172031020600000000	5IOVCPY	FAR	5ID9COPYBF
0073024	03172031051100000000	03172031022200000000	03172031300000000000	24031720310000000000	COPYE1	COPYBR	COPYX TCOPY
0073030	40010000000000000000	03172031230206000003	00520000000040110506	03172031030600000000	5A	COPYSBF C	5IEFCOPYCF
0073034	03172031032200000000	40010000000000000000	03172031414200000000	00560000000040110516	COPYCR	5A	COPY67 5IEN
0073040	03172031424100000000	00560000000040110523	04050400000000000013	40530000000040110530	COPY76	5IESDED	K55 5IEX
0073044	04052000000000000000	04150405032300000000	04152005032300000000	04150400000000000000	DEP	OMDECS	DMPECS DMD
0073050	04152000000000000000	14020300000000000000	14170300000000000000	20020300000000000000	DMP	LBC	LOC PBC
0073054	22022000000000000000	27022200000000000000	40200000010053000000	03261400000000000001	RBR	WBR	5P A 5 CVL A
0073060	00030000000040110603	40240000100000000000	04013106111405000004	01020000000040110605	C	5IFCST H	DAYFILE DAB 5IFE
0073064	01060400000000000000	04060400000000000000	05140400000000000000	40400000000000000000	AFO	DFD	ELO 55
0073070	04170315051624000000	61150000000040110630	05041124000000000001	01200000000040110666	DOCUMENT	M	5IFXEOT AAP 5IF
0073074	40010000000000000000	05162125112205000004	00340000000040110733	14051607241000000000	5A	ENQUIRE D	5IGOLENGTH
0073100	23240124252300000000	23251515012231000000	40040000000000000000	06031720310000000000	STATUS	SUMMARY 50	FCOPY
0073104	00450000000040110757	02132320000000000017	00100000000040110772	03171515171600000000	+	5IG.BKSP	U H 5IG COMMON
0073110	04112320172305000000	05261103240000000000	14170313000000000000	17252400000000000000	DISPOSE	EVICT	LUCK OUT
0073114	20221115012231000000	22051601150500000000	23131120051100000000	23131120060000000000	PRIMARY	RENAME	SKIPEI SKIPF
0073120	23131120060200000000	23131120220000000000	23052411040000000000	25161417031300000000	SKIPFB	SKIPR	SETID UNLOCK
0073124	27221124050600000000	27221124052200000000	06162414232434000000	00000000000040111001	WRITEF	WRITER	FNTLST1 5IHA
0073130	10051420000000000000	00310000000040111026	07242200000000000001	62570000000040111053	HELP	Y	5IHVTR A 5IH8
0073134	03172031220600000000	14110205041124000001	00000000000040111073	40010000000000000000	COPYRF	LIBEDIT A	5IH 5A
0073140	14112324140200000000	00350000000040111141	40400000000000000000	14112324433300000000	LISTLB	A 2	5I1655 LIST80
0073144	00550000000040111155	14174235000000000000	00410000000040111172	03140501220000000003	5I1 L072	6	5I1 CLEAR C
0073150	00100000000040120026	22052425221600000000	22052711160400000000	25161417010400000000	H	5J VRETURN.	REWIND UNLOAD
0073154	15231722240000000000	00000000000040120032	16172405000000000001	00100000000040120036	MSORT	5J ZNOTE	A H 5J 3
0073160	05162405220000000000	20010313000000000000	00270000000040120044	22052305210000000000	ENTER	PACK	W 5J 9RESEQ
0073164	00600000000040120051	22052324012224000001	01020000000040120071	40240000450000400000	5J (RESTART	AAB	5J 5T + 5
0073170	22172524050000000000	00070000000040120106	23172224000000000000	61400000000040120114	ROUTE	G	5JAFSORT 5
0073174	23250215112400000000	01010000000040120125	24042515200000000000	00620000000040120144	SUBMIT	AA	5JAUTQUMP 5JAL
0073200	24221504050600000000	00170000000040120157	26052211063100000001	01330000000040120175	TRMDEF	Q	5JA.VERIFY AAO 5JA
0073204	40010000000000000000	26063114110200000001	62070000000040120216	40010000000000000000	5A	VFYLIB	A G 5JBN5A
0073210	30050411243534100000	01420000000040120234	30050411240000000000	01130000000040120402	XEDIT21H	A7	5JB1XEDIT AK 5JDB
0073214	30050411243400000000	00000000000040120467	30050411243500000000	00000000000040120513	XEDIT1		5JD XE01T2 5JEK
0073220	13221716220506000000	63420000000040120530	15170411063100000000	03710000000040120552	KRONREF	7	5JEXMODIFY C 5JE1

ZERO WORD	000000	00000000000000000000		CPU 0 OFF	ACPL 000060	0		D.
FWA RESIDENT PP LIB	RPLP	000001 00046477	D T			0000000		
NUMBER OF PP-S	PPUL	0024		CPU 0 CP ASSIGNMENT		0000		
CPU CONFIGURATION	CPUL	0075		CPU 0 EXCHANGE ADDRESS		00045776		
MEMDRY SIZE/100	MFL	7777		CPU 1 OFF	000061	0		N N
FWA PP LIBRARY DIR	PLDP	000002 00072015	GPM T=			0000000		
		0000		CPU 1 CP ASSIGNMENT		1600		
NUM OF CONTRDL POINTS	NCPL	0024		CPU 1 EXCHANGE ADDRESS		00001600		
ADDRESS PP COMM AREA	PPCP	5400			PXPP 000062	000000000000		D N
FWA DF BUFFER POINTERS	DFPP	000003 5640	,5 DL/ C	ADDRESS DF PPU2 XP		00046016		
FWA DF DUMP BUFFER		00041450		FIRST WORD OF PP XP	000063	00043224000000000000		DZT
DAYFILE DUMP ENABLED		0000		RESERVED	000064	00000000000000000000		
NUMBER OF EXCESS DF		0003		RESERVED	000065	00000000000000000000		
FWA FILE NAME TABLE	FNTP	000004 6020	P C,	ZERD LOCATION	ZERL 000066	00000000000000000000		
LWA+1 FILE NAME TABLE		7776		RESERVED CPUMTR/MTR	000067	00000000000000000000		
		0000			000070	00000000000000000000		
FWA JOB CONTROL AREA	JBCP	00035670			000071	00000000000000000000		
FWA EQUIP STAT TABLE	ESTP	000005 5720	.P P.		000072	00000000000000000000		
LWA+1 EQUIP STAT TABLE		6020			000073	00000000000000000000		
LWA+1 OF MS EQUIPMENTS		5760			000074	00000000000000000000		
FWA ECS/PP BUFFER		00000000			000075	00000000000000000000		
RESERVED		000006 00010016	A N G,0	RESERVED	MTRL 000076	040000007600		D
FWA USER LIBRARY DIR.	LRDP	00075633		CPUMTR EX ADD FOR MTR		00000000		
ECS SIZE/1000	MEFL	0000		EQ CPSL	CPSL 000077	0004313200		DYZ 03
FWA CPU LIBRARY DIR	CLDP	000007 00072464	GT G.F F	PS 0		0000000436		
FWA -COS- FORMAT CLD		00075706		CHANNEL 0,1,2,3,4	CTIL 000100	00000015000000000007		M G
		00		CHANNEL 5,6,7,10,11	000101	00030000001100010000		C I A
ACCFAM FIELD LENGTH		06		CHANNEL 12,13,14,15,16	000102	00170000000000000000		0
INSTALLATION WORD 0	IN0L	000010 00000000000000000000		CHANNEL 17,20,21,22,23	000103	00000000000000000000		
INSTALLATION WORD 1	IN1L	000011 00000000000000000000		CHANNEL 24,25,26,27,30	000104	00000000000000000000		
INSTALLATION WORD 2	IN2L	000012 00000000000000000000		CHANNEL 31,32,33,34,35	000105	00000000000000000000		
INSTALLATION WORD 3	IN3L	000013 00000000000000000000		RT CLOCK IMAGE - SEC	RTCL 000106	00103257		HZ. BC6
INSTALLATION WORD 4	IN4L	000014 00000000000000000000		RT CLOCK IMAGE - MS		000203417074		
INSTALLATION WORD 5	IN5L	000015 00000000000000000000		RESERVED	000107	00000000000000000000		
INSTALLATION WORD 6	IN6L	000016 00000000000000000000		RESERVED	PFNL 000110	0		KAA
INSTALLATION WORD 7	IN7L	000017 00000000000000000000		TOTAL PF SYS INTERLOCK		0		
	CMRL	000020 0000000000000000	G	PF ACTIVITY COUNT		00		
CMR SIZE/100		0760		RESERVED		0000000000		
SYSTEM LABEL		000021 23312324051555	SYSTEM	DEFAULT FAM EQUIP NUM		13		
		0000		ALTERNATE FAMILY COUNT		01		
LIBDECK NUMBER		0		RESERVED		0		
RECDVRY MDDE		0		WORD INTERLOCK		1		
JDB SEQ NUMBER COUNTER	JSNL	000022 0000000000	ACKO	SECONDS TILL LABEL CHECK	000111	0007		G F
		01033017		SECONDS TILL ICK CALL		0006		
		00				000000000000		
AVAILABLE USER ECS	AECL	000023 0000	XO	INHIBIT ERROR LDGNG	SCRL 000112	0		
		0000		EMERGENCY STEP SET		0		
		00000000		RESERVED		0000000000		
AVAILABLE MEMDRY	ACML	3033		CM SECDED ERRORS		0000		
JOB SCHEDULER	MSCL	000024 0000	A EVQ	LCME SECDED ERRORS		0000		
CPU RECALL DELAY		0000		BITS 59-0 CHAN 16 S/C	S16L 000113	33134220000000000000		OK7P
PP/AUTO RECALL DELAY		0001		BITS 119-60	000114	00000000600100040113		A DAK
JOB ACTIVITY DELAY		7605		BITS 179-120	000115	0000000000001600000		A
JOB SWITCH DELAY		2621		RESERVED	000116	000000000000		
INTERNAL *MTR* FLAG	ECRL	000025 0000		BITS 203-180		00000000		
FIRST TRACK FDR USERS		0000		BITS 59-0 CHAN 36 S/C	S36L 000117	40301000000000000000		5XH
NUMBER OF USER 1K BLDCKS		0000		BITS 119-60	000120	00000000600100000113		A AK

RA = LC.	EXPRESS 11	DSDI - V2.0	79/10/30. 10.59.40.	PAGE 2
0000000 CM	16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.	NOS 1-8J03T/R2B.	NOS 1.4 STUDY DUMP - DSDI SAMPLE.	

ECS RA/1000B FOR CP 0	0000	BITS 179-120	000121 00000000000000200000	P
ECS FL/1000B FOR CP 0	0000	RESERVED	000122 00000000000000	H H
JULIAN DATE	JDAL 000026 000000000004244353544	79229	000123 4135	62
	PDTL 000027 000000000	IHQPW3		
YEAR - BIASED BY 1970	11	MACHINE IDENTIFICATION MMFL		
MONTH	10	RESERVED	00	
DAY	21	LINK DEVICE EQ	00	
HOURS	20	FLAG REG RECOVERY INTERLOCK	0	
MINUTES	27	RESERVED	0	
SECONDS	36	INITIALIZED EQ COUNT	00	
TIME OF DAY (DSD)	TIML 000030 55344157353657363357	MACHINES STATUS	0000	
DATE (DSD)	DTL 000031 55424450334350344257	MACHINE INDEX	0000	
SYSTEM TITLE LINE	000032 55513640525503310205	RESERVED	000124 00000000000000000000	
	000033 22553442375523501655 R 174 S/N	RESERVED	EFRL 000126 0000000000000000	
	000034 41353355031423105700 620 CLSH.	FLAG REGISTER IMAGE	000000	
	000035 00000000000000000000	RESERVED	INWL 000127 0000000000000000	
SYSTEM VERSION NAME	000036 16172355344643123336	DISABLE FLAGS	0	
	000037 24502235025700000000 T/R2B.		000	
	JSQL 000040 0000000000000000	FATAL ERROR/SUBSYS ABORT	0	
SCHEDULER REQUEST FLAG	0	RESERVED	SDOL 000130 00000000	A F
SCHEDULER CYC INTERVAL	0001	*MXN* TIME - MICS.	5601	
SCHEDULER ACTIVE FLAG	000041 0	WDRST CASE MTR CYCLE	0006	
	000000000000	CURRENT MTR CYCLE TIME	0000	
SCHEDULER RECALL TIME	00100434	COUNT OF ECS MOVES	SDIL 000131 0000000000	UPR
CPU1 MULTIPLIER INDEX	IPRL 000042 00	COUNT OF CM MOVES	0000252022	
CPU2 MULTIPLIER INDEX	00	JOBS ROLLED	SD2L 000132 00165675	N, 2KNP
	0000	SECTORS ROLLED	000035131620	
ASSUMED KEYPUNCH MODE	0	RESERVED	SD3L 000133 0000	B2
	00	ROLLOUTS DUE TO USER LIMIT	00000235	
ASSUMED CHAR SET CONV	1	TIME SLICE ROLLOUTS	00007062	
ASSUMED CONV MODE	0002	RESERVED	SD4L 000134 0000000000	HS
ASSUMED NT TAPE DENSITY	03	PP PRIORITY EXCHANGE	0000001023	
TRACK TYPE/MT DENSITY	03	RESERVED	000135 00000000000000000000	
	SSTL 000043 01		000136 00000000000000000000	
DISABLE USER ECS, PF/MS VAL	0		000137 00000000000000000000	
IGNORE/DISABLE ACCOUNT	0		000140 00000000000000000000	
DISABLE SUB-SYSTS/REMDV DEV	12		000141 00000000000000000000	
DISABLE Q PROT/SEC USER/SCP	2		000142 00000000000000000000	
DISABLE TAF/NAM/RBF	7		000143 00000000000000000000	
DISABLE SUB-CP, MCS, CDCS	3		000144 00000000000000000000	
	40000		000145 00000000000000000000	
DISABLE SIMULATED SCR	1		000146 00000000000000000000	
ENGR/LOCK/DEBUG STATUS	2		000147 00000000000000000000	
	0000		000150 00000000000000000000	
TELEX CONTROL POINT	SSCL 000044 0001		000151 00000000000000000000	
EXPORT/IMPORT	0000		000152 00000000000000000000	
BATCHIO	0023		000153 00000000000000000000	
MAGNET	0022		000154 00000000000000000000	
TAF	0002		000155 00000000000000000000	
STIMULATOR	000045 0000		000156 00000000000000000000	
NIP	0003		000157 00000000000000000000	
RBF	0021		000160 00000000000000000000	
CDCS	0000		000161 00000000000000000000	
MCS	0000		000162 00000000000000000000	
MASS STORAGE CONTROL (MSM)	000046 0000		000163 00000000000000000000	
TRANSACTION STIMULATOR	0000		000164 00000000000000000000	
RESERVED FOR CDC	0000		000165 00000000000000000000	
			000166 00000000000000000000	

DSD - IDS PARAMETER BLOCK
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RA - SC. EXPRESS 11 DSDI - V2.0 79/10/30. 10.59.41. PAGE 4  
0000000 SCR 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R28. NOS 1.4 STUDY DUMP - DSDI SAMPLE.

STATUS/CONTROL REGISTER 0 (CHANNEL 16)

BITS 203 - 144 0003 0000 0000 0000 0000  
BITS 143 - 72 0160 0000 0000 0000 0001 0000  
BITS 71 - 00 1216 3313 4220 0000 0000 0000

STATUS/CONTROL REGISTER 1 (CHANNEL 36)

BITS 203 - 144 1000 0010 0000 0000 0000  
BITS 143 - 72 0020 0000 0000 0000 0000 0000  
BITS 71 - 00 0001 4030 1000 0000 0000 0000

RA = XP.  
0000000 CPR

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CPU0 HARDWARE REGISTERS - ON

P	42126	A0	0	B0	0
RA	0	A1	60	B1	1
FL	777700	A2	45777	B2	45776
EM	70070000	A3	45777	B3	44574
RAE	0	A4	46001	B4	0
FLE	0	A5	44575	B5	0
MA	0	A6	60	B6	45776
	0	A7	41757	B7	0

X0	0000 0000 0000 0004 5776	D.
X1	0000 0000 0000 0000 0000	
X2	0000 0000 0000 0004 4574	D+
X3	0000 0000 0000 0004 5776	D.
X4	0400 0000 0000 0000 0000 D	
X5	0000 0000 0000 0000 0000	
X6	0000 0000 0000 0004 5776	D.
X7	0000 0000 0000 0004 5776	D.

CPU1 HARDWARE REGISTERS - ON

P	2075	A0	20000	B0	0
RA	377700	A1	1503	B1	15
FL	20000	A2	1515	B2	5
EM	70000000	A3	1531	B3	17777
RAE	0	A4	0	B4	3441
FLE	0	A5	2172	B5	1
MA	1600	A6	3440	B6	0
	0	A7	1516	B7	6

X0	0000 0000 0000 0000 0001	A
X1	0000 0000 0000 0000 0000	
X2	0000 0000 0000 0000 0000	
X3	0000 0000 0000 0000 0000	
X4	0000 0000 0000 0000 0000	
X5	0000 0000 0000 0000 0000	
X6	0000 0000 0000 0000 0000	
X7	0000 0000 0000 0000 0100	A

JOB CONTROL AREA BY ORIGIN TYPE

SYOT

INITIAL QUEUE PRIORITY INQT 035670 7757 .G X A  
 LOWER BOUND 0700  
 UPPER BOUND 3000  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY RQQT 035671 6000 A H A  
 LOWER BOUND 0100  
 UPPER BOUND 1000  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY QTQT 035672 0400 D A A  
 LOWER BOUND 0100  
 UPPER BOUND 7700  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035673 0001 AA P  
 CPU TIME SLICE - MS\*64 0100  
 CM TIME SLICE - SEC 0020  
 00000000  
 MAX NUMBER JOBS/USERS 035674 7777  
 MAX FL FOR ANY JOB 7777  
 MAX FL FOR JOBS 7777  
 MAXIMUM ECS ANY JOB 7777  
 MAXIMUM ECS ALL JOBS 7777  
 LIMIT FOR SIZE OF DAF PFCT 035675 0  
 LIMIT FOR NUMBER OF PF 0  
 LIMIT CUMM SIZE IAPF 0  
 LIMIT FOR SIZE OF IAPF 0  
 RESERVED 0000000000000000  
 SYSTEM EVENT TAG ETB 035676 000000000000000000

HCOT

INITIAL QUEUE PRIORITY INQT 035700 2400 T P 5H A  
 LOWER BOUND 2000  
 UPPER BOUND 4010  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY RQQT 035701 2400 T HH5D A  
 LOWER BOUND 1010  
 UPPER BOUND 4004  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY QTQT 035702 0200 B A A  
 LOWER BOUND 0100  
 UPPER BOUND 7000  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035703 0030 XD B  
 CPU TIME SLICE - MS\*64 0400  
 CM TIME SLICE - SEC 0200  
 00000000  
 MAX NUMBER JOBS/USERS 035704 7777  
 MAX FL FOR ANY JOB 7777  
 MAX FL FOR JOBS 7777  
 MAXIMUM ECS ANY JOB 7777  
 MAXIMUM ECS ALL JOBS 7777  
 LIMIT FOR SIZE OF DAF PFCT 035705 0  
 LIMIT FOR NUMBER OF PF 0  
 LIMIT CUMM SIZE IAPF 0  
 LIMIT FOR SIZE OF IAPF 0  
 RESERVED 0000000000000000  
 SYSTEM EVENT TAG ETB 035706 000000000000000000

EIOT

INITIAL QUEUE PRIORITY INQT 035710 3400 I T 5H A  
 LOWER BOUND 2400  
 UPPER BOUND 4010  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY RQQT 035711 3400 I L 5F A  
 LOWER BOUND 1400  
 UPPER BOUND 4006  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000  
 INITIAL QUEUE PRIORITY QTQT 035712 0200 B A A  
 LOWER BOUND 0100  
 UPPER BOUND 7600  
 PRIORITY AGE INTERVAL 0001  
 CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035713 0030 XD B  
 CPU TIME SLICE - MS\*64 0400  
 CM TIME SLICE - SEC 0200  
 00000000  
 MAX NUMBER JOBS/USERS 035714 7777  
 MAX FL FOR ANY JOB 7777  
 MAX FL FOR JOBS 7777  
 MAXIMUM ECS ANY JOB 7777  
 MAXIMUM ECS ALL JOBS 7777  
 LIMIT FOR SIZE OF DAF PFCT 035715 0  
 LIMIT FOR NUMBER OF PF 0  
 LIMIT CUMM SIZE IAPF 0  
 LIMIT FOR SIZE OF IAPF 0  
 RESERVED 0000000000000000  
 SYSTEM EVENT TAG ETB 035716 000000000000000000

RA = JC.  
0000000 CM

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NOS 1-8J03T/R2B.

NOS 1.4 STUDY DUMP - DSDI SAMPLE.

# TXOT

INITIAL QUEUE PRIORITY INQT 035720 4000 5 4 F A  
LOWER BOUND 3770  
UPPER BOUND 7006  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY ROOT 035721 4004 5D45 A  
LOWER BOUND 3740  
UPPER BOUND 7000  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY OTOT 035722 0200 B A A  
LOWER BOUND 0100  
UPPER BOUND 7000  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035723 0030 X 5 H  
CPU TIME SLICE - MS\*64 0040  
CM TIME SLICE - SEC 0010  
00000000  
MAX NUMBER JOBS/USERS 035724 7777  
MAX FL FOR ANY JOB 7777  
MAX FL FOR JOBS 7777  
MAXIMUM ECS ANY JOB 7777  
MAXIMUM ECS ALL JOBS 7777  
LIMIT FOR SIZE OF OAF PFCT 035725 0  
LIMIT FOR NUMBER OF PF 0  
LIMIT CUMM SIZE IAPF 0  
LIMIT FOR SIZE OF IAPF 0  
RESERVED 0000000000000000  
SYSTEM EVENT TAG ETB 035726 000000000000000000

# MTOT

INITIAL QUEUE PRIORITY INQT 035730 6774 A  
LOWER BOUND 6700  
UPPER BOUND 7400  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY ROOT 035731 6774 5 A  
LOWER BOUND 4000  
UPPER BOUND 7400  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000  
INITIAL QUEUE PRIORITY OTOT 035732 6000 A A  
LOWER BOUND 0100  
UPPER BOUND 7700  
PRIORITY AGE INTERVAL 0001  
CURRENT INTERVAL COUNT 0000

INITIAL CPU PRIORITY SVJT 035733 0031 YD  
CPU TIME SLICE - MS\*64 0400  
CM TIME SLICE - SEC 0060  
00000000  
MAX NUMBER JOBS/USERS 035734 7777  
MAX FL FOR ANY JOB 7777  
MAX FL FOR JOBS 7777  
MAXIMUM ECS ANY JOB 7777  
MAXIMUM ECS ALL JOBS 7777  
LIMIT FOR SIZE OF OAF PFCT 035735 0  
LIMIT FOR NUMBER OF PF 0  
LIMIT CUMM SIZE IAPF 0  
LIMIT FOR SIZE OF IAPF 0  
RESERVED 0000000000000000  
SYSTEM EVENT TAG ETB 035736 000000000000000000

2400 - CONTROL POINT 12

CP12 EXCHANGE PACKAGE

P	11336	A0	2252	B0	0	(A0)=0000	0000	0000	0002	4042	B57	(B0)=0000	0000	0000	0000	0000	
RA	432600	A1	1	B1	1	(A1)=0000	0000	0000	0000	5601	,A	(B1)=0000	0000	0000	0000	5601	,A
FL	55700	A2	65	B2	777765	(A2)=4000	0000	0000	0004	1614	5	DNL	(B2)=0000	0000	0000	0000	0000
EM	70070000	A3	13044	B3	0	(A3)=0000	0016	2503	1405	2523	NUCLEUS	(B3)=0000	0000	0000	0000	0000	
RAE	0	A4	114	B4	2	(A4)=0100	0000	0003	5104	3403	A	C(DIC	(B4)=1116	2025	2400	0000	4610
FILE	0	A5	2452	B5	450	(A5)=1075	5376	5051	7003	0454	H \$ / (	CD=	(B5)=0100	0000	0255	6503	5732
MA	2400	A6	1	B6	26072	(A6)=0000	0000	0000	0000	5601	,A	(B6)=0000	0000	0000	0000	5771	.
	0	A7	12706	B7	777001	(A7)=0000	0351	0003	5204	3403	CI	C(DIC	(B7)=0000	0000	0000	0000	0000

X0	0000	0000	0000	0000	0000	(X0)=0000	0000	0000	0000	0000	
X1	0000	0000	0000	0000	0000	(X1)=0000	0000	0000	0000	0000	
X2	0207	0620	0000	0000	0000	BGFP	(X2)=0000	0000	0000	0000	0000
X3	0000	0016	2503	1405	2523	NUCLEUS	(X3)=0000	0000	0000	0000	0000
X4	0100	0000	0003	5104	3403	A	C(DIC	(X4)=0667	0433	7646	0004
X5	0000	0000	0000	0000	0000		(X5)=0000	0000	0000	0000	0000
X6	1404	2120	0000	0001	2703	LDQP	AWC	(X6)=0104	3533	0730	0000
X7	0000	0351	0003	5204	3403	CI	C(DIC	(X7)=0667	0433	7646	0004

PARAMETER SUMMARY

JOB NAME	ALMY024	CPU STATUS	I
USER NUMBER	AD2000	SENSE SWITCHES	00
PRIMARY FILE		KCL R1	000000
ORIGIN TYPE	TXOT	KCL R2	000000
TIME USED	1122727	KCL R3	000000
TIME REMAINING	6701550	KCL EF	04
QUEUE PRIORITY	7000	CPU PRIORITY	030

MESSAGE 1 - AD20GX,9,C.  
MESSAGE 2 -

CURRENT CONTROL STATEMENT - \_AD20GX,9,C.

LAST DAYFILE MESSAGE - 16.22.36.AD20GX,9,C.

SPECIAL ENTRY POINTS -

CONTROL POINT AREA

CPU STATUS/AUTO RECALL STSW	002420	1	HA	8VE.	JOB SEQUENCE NUMBER	RFCW	002474	01022207	ABRG
CPU SUB-CP ACTIVE		0			CONTROL STATEMENT ADDRESS			000000	
NUMBER PPS ASSIGNED		01			DEM FILE RANDOM INDEX			000000	
ERROR FLAGS		0000			RESERVED	ALMW	002475	0000	2-
ACTIVITY COUNT		0000			MAX MAGNETIC TAPES			3	
RA/100		4326			MAX REMOVABLE PACKS			2	
FL/100		0557			MAX DEFER BATCH JOBS			4	
JOB NAME	JNMW	002421	01141531333537	ALMY024C	MAX LOCAL WORK FILES			6	
JOB ORIGIN CODE			03		MAX TIME LIMIT			77	
OPER ASSIGNED EQUIP	DAEW		0000		MAX SRU LIMIT			77	
CPU PRIORITY	JCIW	002422	0030	X	MAX FIELD LENGTH			76	
QUEUE PRIORITY		7000			MAX ECS FIELD LENGTH			00	

CPU STATUS FOR ROLLOUT 0  
ROLLOUT REQUESTED 00  
0  
00  
CPUS ALLOWABLE 000000  
CM RESID TIME LIMIT TSCW 002423 00100441 H06A B  
QUEUE CONTROL 01  
CPU TIME SLICE LIMIT 0000027771  
TIME ENTERED X STATUS CPCW 002424 00000000000000000000  
JOB CONTROL FLAGS ECSW 002425 0000  
REMOV. PACK INTERLOCK CPIW 0  
RESERVED 0000000  
ECS RA/1000B 0000  
ECS FL/1000B 0000  
PP INPUT REGISTER RLPW 002426 00000000000000000000  
PUNCH MODE/OVERRIDE SNSW 002427 0  
0000000  
RESERVED-INSTALLATION 0000  
PP PAUSE FLAGS 0000  
SENSE SWITCHES 00  
00  
MESSAGE 1 AREA MS1W 002430 01043533073056445603 AD20GX,9,C  
002431 57000000000000000000  
002432 00000000000000000000  
002433 00000000000000000000  
002434 00000000000000000000  
MESSAGE 2 AREA MS2W 002435 00000000000000000000  
002436 00000000000000000000  
002437 00000000000000000000  
INSTALLATION WORD 0 INOW 002440 00000000000000000000  
INSTALLATION WORD 1 IN1W 002441 00000000000000000000  
INSTALLATION WORD 2 IN2W 002442 00000000000000000000  
INSTALLATION WORD 3 IN3W 002443 00000000000000000000  
INSTALLATION WORD 4 IN4W 002444 00000000000000000000  
INSTALLATION WORD 5 IN5W 002445 00000000000000000000  
INSTALLATION WORD 6 IN6W 002446 00000000000000000000  
INSTALLATION WORD 7 IN7W 002447 00000000000000000000  
LIMIT FLAGS SRUW 002450 0000 \*G F7  
OVERFLOW FLAGS 00  
SRU ACCUMULATOR 00004707630642  
CP ACCUM (NANOUNITS/4) CPTW 002451 00000002452211750000 B+RI  
IO ACCUMULATORS IOAW 002452 05034620000000001502 EC-P MB  
M13 = M1 \* M3 MP1W 002453 000036 3 3 A  
M14 = M1 \* M4 000036  
ADDER ACCUMULATOR ADAW 000000  
M1 \* 1000 MP2W 002454 023420 BIP 0/  
M12 = M1 \* M2 001750  
RESERVED 00000000  
CPM MP3W 002455 0000026164 B +L  
IOM 0000004514  
SRU ACCOUNT BLOCK LMT STLW 002456 777770  
COMPUTED SRU JOB STEP LIMIT 777777777777  
RESERVED SRJW 002457 0000 7HN  
SRU JOB STEP LIMIT 777777  
SRU ACCUMULATOR 0000421016  
RESERVED CPJW 002460 0000 A BP  
JOB STEP TIME LIMIT 000100

MAX LINES PRINTED 77  
MAX CARDS PUNCHED 77  
RESERVED  
ACLW 002476 0000 M) K- X  
DAYFILE MESSAGES COUNT 1552  
CONTROL STATEMENTS CNT 7777  
DISPOSED OUTPUT COUNT 13  
MS PRUS COUNT 467330  
ACCOUNT ACCESS WORD AACW 002477 00000000002700002555 W U  
LENGTH BUFFER 0 ICAW 002500 0000  
ADDRESS BUFFER 0 000000  
LENGTH BUFFER 1 0000  
ADDRESS BUFFER 1 000000  
SP ENTRY POINT FLAGS SEPW 002501 4000 5  
RESERVED 0000  
DMP= PARAMETER VALUE 000000  
SSJ= PARAMETER ADDRESS 000000  
ENTRY POINT NAME SPCW 002502 000000  
SYSTEM PROCESSOR FLAGS 00  
PARAMETER 000000  
PARAMETER LIST ADDRESS 000000  
CCL - EFG JCOW 002503 04 0  
CCL - R1G 000000  
CCL - DATA 0000  
RESERVED 00000000  
CCL - EF JCRW 002504 04 0  
CCL - R3 000000  
CCL - R2 000000  
CCL - R1 000000  
SECURE MEMORY FLAG DBAW 002505 0  
ECS AND CM CMM MODE FLAGS 0  
INPUT BUFFER ADDRESS 000000  
RIGHT SCREEN BFR ADD 000000  
LEFT SCREEN BFR ADD 000000  
MAP OPTIONS LB1W 002506 00  
RESERVED 000000  
INTERACTIVE DEBUG CONTROL 0000  
GLOBAL LIB INDICATORS 00000000  
SECOND LIB/GLOBAL IND LB2W 002507 00000000000000000000  
FIRST LIB/GLOBAL IND LB3W 002510 00000000000000000000  
RESERVED PP0W 002511 0000  
ECS FL FOR DMP= CALL 0000  
FL FOR DMP= CALL 0000  
DUMP WORD COUNT 00  
FWA OF DUMP 000000  
SSOW 002512 0000000000000000  
OUTSTANDING CONNECT COUNT 0000  
COMPUTED CP TIME LIMIT CPLW 002513 00000005677572611400 E L  
002514 00000000000000000000  
002515 00000000000000000000  
002516 00000000000000000000  
002517 00000000000000000000  
002520 00000000000000000000  
002521 00000000000000000000  
002522 00000000000000000000  
002523 00000000000000000000  
002524 00000000000000000000  
002525 00000000000000000000

CP ACCUMULATOR		0000000220				002526 00000000000000000000	
CHARGE PROCESSED	FPFW 002461 6		T, EB			002527 00000000000000000000	
RESERVED		000			CONTROL STATEMENT BFR CSBW	002530 01043533073056445603	AD20GX,9,C
SRU VALIATION LIMIT		7777				002531 57000000000000000000	.
FNT ORD PROFILE FILE		0024				002532 00000000000000000000	
LEVEL-3 BLOCK TRACK		5674				002533 00000000000000000000	
LEVEL-3 BLOCK SECTOR		0502				002534 00000000000000000000	
MAX FL FOR JOB STEP	FLCW 002462 3737		44 44			002535 00000000000000000000	
INITIAL FL FOR JOB STEP		0000				002536 00000000000000000000	
MAXIMUM FL FOR ENTIRE JOB		3737				002537 00000000000000000000	
ROLLIN FL		0000				002540 22052425221656230322	RETURN,SCR
FL INCREASE REQUEST		0000				002541 57000000000000000000	.
JOB STEP MAX ECS FL	ELCW 002463 0000					002542 05162125112205561216	ENQUIRE,JN
LAST CARD ECS FL		0000				002543 57000000000000000000	.
JOB MAX ECS FL		0000				002544 22171414172524563633	ROLLOUT,30
ROLLIN ECS FL		0000				002545 57000000000000000000	.
ECS FL INCREASE REQ		0000				002546 07172417560301241411	GOTO,CATLI
ROLLOUT ALLOWABLE	SSCW 002464 0000					002547 23245700000000000000	ST.
CONNECTION/WAIT RESPONSES		00000000000000000000				002550 22052605222457030314	REVERT,CCL
TXUT SUBSYSTEM	TXSW 002465 05		E 61G			002551 55555555555555550000	
LIST OF FILES ADDRESS	LOFW	000000				002552 05301124570303140000	EXIT,CCL
INTERRUPT AOR/PREV ERR	TIAW	411107				002553 22052605222456010217	REVERT,ABD
OUTPUT POINTER	TIOW	000000				002554 22245703031455550000	RT,CCL
AUXILIARY PACKNAME	PFCW 002466 0000000000000000		K 9			002555 00000000000000000000	
EST OF FAMILY DEVICE		13				002556 00000000000000000000	
LIMIT FOR SIZE OF OAF		6				002557 00000000000000000000	
LIMIT FOR NUMBER OF PF		0				002560 00000000000000000000	
LIMIT CUMM SIZE IAPF		4				002561 00000000000000000000	
LIMIT FOR SIZE OF IAPF		4				002562 00000000000000000000	
USER NUMBER	UIDW 002467 01043533333300		AD2000 V			002563 00000000000000000000	
USER INDEX		002663				002564 00000000000000000000	
NO EXIT AND RPV FLAGS	EECW 002470 00		A CG			002565 00000000000000000000	
		00				002566 00000000000000000000	
REPRIEVE DATA		0001				002567 00000000000000000000	
TERMINAL INPUT POINTER	TINW	000000				002570 00000000000000000000	
REPRIEVE DATA		030764				002571 00000000000000000000	
INPUT FILE FST	TFSW 002471 6101		A			002572 00000000000000000000	
PRIMARY FILE FST		0000				002573 00000000000000000000	
RESERVED		00				002574 00000000000000000000	
EVENT DESCRIPTOR	TERM	000000				002575 00000000000000000000	
ROLLOUT TIME PERIOD		0000				002576 00000000000000000000	
RESERVED	CSPW 002472 0000		5 AAZAZ			002577 00000000000000000000	
EUR FLAG/CS COUNT		40000001					
NEXT STATEMENT INDEX		0132					
LIMIT INDEX		0132					
INPUT/SKIP FLAGS	CSSW 002473 0						
		0					
EQUIPMENT NUMBER		00					
FIRST TRACK		0000					
CURRENT TRACK		0000					
CURRENT SECTOR		0000					
FIRST/SECOND HALF FLAG		0000					

DAYFILE POINTERS AND BUFFER

0005664 0003 7050 0052 0100 0000 C / JA  
 0005665 0002 4152 4152 0021 0000 86161 Q

RA = CP,12/XTAFP. EXPRESS 11 DSDI - V2.0 79/10/30. 10.59.46. PAGE 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - DSDI SAMPLE.

0037050 55344157353457364457 22052425221656230322 57000000000000000000 55344157353457364457 16.21.39.RETURN,SCR. 16.21.39.  
0037054 05162125112205561216 57000000000000000000 55344157353457364457 22171414172524563633 ENQUIRE,JN. 16.21.39.ROLLOUT,30  
0037060 57000000000000000000 55344157353557334457 07172417560301241411 23245700000000000000 . 16.22.09.GOTO,CATLIST.  
0037064 55344157353557334457 03012414112324561417 54065614542303225700 00000000000000000000 16.22.09.CATLIST,LO=F,L=SCR.  
0037070 55344157353557343357 55030124141123245503 17152014052405570000 55344157353557343357 16.22.10. CATLIST COMPLETE. 16.22.10.  
0037074 30050411245623032256 16105601235777145001 04353355503477740214 50010435330730507730 XEDIT,SCR,NH,AS. L/AD20 /1 BL/AD20GX/ X  
0037100 00000000000000000000 55344157353557343357 21000000000000000000 55344157353557343357 16.22.10.Q 16.22.11.  
0037104 22052425221656230322 57000000000000000000 55344157353557343357 05162125112205561216 RETURN,SCR. 16.22.11.ENQUIRE,JN  
0037110 57000000000000000000 55344157353557343357 22171414172524563633 57000000000000000000 . 16.22.11.ROLLOUT,30.  
0037114 55344157353557363457 53012424010310560104 35330730570000000000 55344157353557364157 16.22.31.\$ATTACH,AD20GX. 16.22.36.  
0037120 01043533073056445603 57000000000000000000 57000000000000000000 55344157353457334157 AD20GX,9,C. . 16.21.06.  
0037124 22171414172524563633 57000000000000000000 55344157353457364157 07172417560301241411 ROLLOUT,30. 16.21.36.GOTO,CATLI  
0037130 23245700000000000000 55344157353457364157 03012414112324561417 54065614542303225700 ST. 16.21.36.CATLIST,LO=F,L=SCR.  
0037134 00000000000000000000 55344157353457364257 55030124141123245503 17152014052405570000 16.21.37. CATLIST COMPLETE.  
0037140 55344157353457364257 30050411245623032256 16105601235777145001 04353355503477740214 16.21.37.XEDIT,SCR,NH,AS. L/AD20 /1 BL  
0037144 50010435330730507730 00000000000000000000 55344157353457364257 21000000000000000000 /AD20GX/ X 16.21.37.Q

DAYFILE LINES IN BUFFER

16.21.39.RETURN,SCR.  
16.21.39.ENQUIRE,JN.  
16.21.39.ROLLOUT,30.  
16.22.09.GOTO,CATLIST.  
16.22.09.CATLIST,LO=F,L=SCR.  
16.22.10. CATLIST COMPLETE.  
16.22.10.XEDIT,SCR,NH,AS. L/AD20 /1 BL/AD20GX/ X  
16.22.10.Q  
16.22.11.RETURN,SCR.  
16.22.11.ENQUIRE,JN.  
16.22.11.ROLLOUT,30.  
16.22.31.\$ATTACH,AD20GX.  
16.22.36.AD20GX,9,C.

ATTACHED FILES

0030	INPUT*	IN	FNT - 6100	1116	2025	2447	0001	0012	INPUT* A J	EST - 5720	0000	0000	0000	2204	1003	RDHC
			FST - 6101	0000	0000	0000	0000	0005	E							
0060	INPUT	LO	FNT - 6160	1116	2025	2400	0000	1512	INPUT MJ	EST - 6015	2000	0000	0102	2424	0000	P ABTT
			FST - 6161	0075	0000	0000	0000	0401	DA							
0061	OUTPUT	LO	FNT - 6162	1725	2420	2524	0000	1512	OUTPUT MJ	EST - 6015	2000	0000	0102	2424	0000	P ABTT
			FST - 6163	0075	0000	0000	0000	0401	DA							
0062	ZZZZZC2	LO	FNT - 6164	3232	3232	3203	3500	1512	ZZZZZC2 MJ	EST - 5725	4200	2120	0000	0411	1250	7 QP DIJJ
			FST - 6165	7105	5222	5222	0002	0307	EIRIK BCG							
			TRACK CHAIN -													
			5222 0002													
0063	GRU01A	LO	FNT - 6166	0722	2533	3401	0000	1512	GRU01A MJ	EST - 5722	6200	0705	0000	0421	1074	GE DQH
			FST - 6167	0002	4140	4140	0001	0305	B6565 ACE							
			TRACK CHAIN -													
			4140 0011													
0064	DAY	LO	FNT - 6170	0401	3100	0000	0000	1512	DAY MJ	EST - 5722	6200	0705	0000	0421	1074	GE DQH
			FST - 6171	0002	4163	4163	0001	0305	B6 6 ACE							

			TRACK CHAIN -																			
			4163 0010																			
0070	GRU01	LD	FNT - 6200	0722	2533	3400	0000	1512	GRU01	MJ	EST - 5724	4200	2021	0000	0411	1163	7	PQ	DI			
			FST - 6201	0004	5240	5240	0011	0305	D1515	ICE												
			TRACK CHAIN -																			
			5240 0011																			
0071	GRU1	LD	FNT - 6202	0722	2534	0000	0000	1512	GRU1	MJ	EST - 5722	6200	0705	0000	0421	1074	GE	DQH				
			FST - 6203	0002	4211	4211	0010	0305	B7171	HCE												
			TRACK CHAIN -																			
			4211 0010																			
0073	L	LD	FNT - 6206	1400	0000	0000	0000	1512	L	MJ	EST - 5722	6200	0705	0000	0421	1074	GE	DQH				
			FST - 6207	0002	4142	4142	0176	0707	B6767A	GG												
			TRACK CHAIN -																			
			4142 0176																			
0075	LGD	LD	FNT - 6212	1407	1700	0000	0000	1512	LGD	MJ	EST - 5725	4200	2120	0000	0411	1250	7	QP	DIJ/			
			FST - 6213	0005	5221	5221	0001	0505	E1Q1Q	AEE												
			TRACK CHAIN -																			
			5221 0011																			
0143	F	LD	FNT - 6326	0600	0000	0000	0000	1512	F	MJ	EST - 5722	6200	0705	0000	0421	1074	GE	DQH				
			FST - 6327	0002	4176	4176	0002	0315	B6 6	BCM												
			TRACK CHAIN -																			
			4176 0002																			
0156	PRUCFIL	LD	FNT - 6354	2022	1703	0611	1400	1512	PRUCFIL	MJ	EST - 5721	6200	0705	0000	0421	1005	GE	DQHE				
			FST - 6355	0001	4241	4241	0021	0415	A7676	QDM												
			TRACK CHAIN -																			
			4241 0021																			
0160	C	LD	FNT - 6360	0300	0000	0000	0000	1512	C	MJ	EST - 5725	4200	2120	0000	0411	1250	7	QP	DIJ/			
			FST - 6361	0005	5252	5252	0002	0305	E1111	BCE												
			TRACK CHAIN -																			
			5252 0002																			
0161	TAPE3	PM	FNT - 6362	2401	2005	3600	0000	1212	TAPE3	JJ	EST - 5727	4200	2422	0000	0411	1422	7	TR	DILR			
			FST - 6363	0007	5702	5365	0042	0301	G.81	7CA												
			TRACK CHAIN -																			
			5702 5746 6016 6121 6122 6123 6124 5365 6135 0076																			
0163	GRULIB	LD	FNT - 6366	0722	2514	1102	0000	1512	GRULIB	MJ	EST - 5725	4200	2120	0000	0411	1250	7	QP	DIJ/			
			FST - 6367	0005	5204	5204	0013	0411	E1D1D	KDI												
			TRACK CHAIN -																			
			5204 0013																			
0165	NEW	LD	FNT - 6372	1605	2700	0000	0000	1512	NEW	MJ	EST - 5721	6200	0705	0000	0421	1005	GE	DQHE				
			FST - 6373	0001	4174	4174	0001	0505	A6 6	AEE												
			TRACK CHAIN -																			
			4174 0373																			
0166	XED	LD	FNT - 6374	3005	0400	0000	0000	1512	XED	MJ	EST - 5725	4200	2120	0000	0411	1250	7	QP	DIJ/			
			FST - 6375	0005	5260	5260	0001	0005	E1 1	A E												
			TRACK CHAIN -																			
			5260 0021																			

RA = CP,12/XTAFP. EXPRESS 11 DSDI - V2.0 79/10/30. 10.59.46. PAGE 13  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R28. NOS 1.4 STUDY DUMP - DSDI SAMPLE.

0167 J08GX LD FNT - 6376 1217 0207 3000 0000 1512 J08GX MJ EST - 5722 6200 0705 0000 0421 1074 GE DQH  
FST - 6377 0002 4214 4214 0003 0315 87L7L CCM  
TRACK CHAIN -  
4214 0003

0171 AD20GX PM FNT - 6402 0104 3533 0730 0001 1212 AD20GX AJJ EST - 5727 4200 2422 0000 0411 1422 7 TR DILR  
FST - 6403 0007 6137 6137 0156 0004 G 4 4A, D  
TRACK CHAIN -  
6137 6140 6141 6142 6143 6144 6145 6146 6147 6150 6151 6152 6153 6154 6155 6156 6157 6160 6161 6162 6163 6164  
6165 6166 6167 6170 6171 6172 6173 6174 6175 6176 6177 6200 6201 6202 6203 0266

ANALYSIS OF PP26

PP26	LDQ	1404 2152 0000 0001 2703	LDQ)	AWC	LAST MAIN PROGRAM LOADED - LDQ
	DSWM	0033 0100 0002 0001 0024	OA	B A T	LAST OVERLAY LOADED - LDQ
	CP12	0024 0003 6123 0342 0005	T C	SC7 E	LAST MASS STORAGE DRIVER - 60I
		0002 0044 0427 0012 0021	B	90W J Q	
		0000 0000 0000 0000 0000			
		0000 0000 0000 0000 0000			
		0000 0000 0000 0000 0000			
		0000 0000 1110 2120 2736			

IHQPW3

RESIDENT ENTRY POINTS  
NAME LOC CALLER

LOW CORE CONSTANTS  
NAME LOC ACTUAL EXPECTED

FTN	0336	1015	RA	55	4322	4326	*** WARNING ***
RCH	0377	0376	FL	56	0547	0557	*** WARNING ***
DCH	0406	0405	DN	70	0001	0001	
DFM	0442	1567	HN	71	0100	0100	
EXR	0476	1126	TH	72	1000	1000	
SMS	0513	1703	TR	73	0003	0003	
RDS	0560	1462	CP	74	2400	2400	
WDS	0563	2473	IA	75	5600	5600	
EMS	0566	1245	QA	76	5601	5601	
	0000	0003	MA	77	5602	5602	

PPU MEMORY

0000	0003	2020	3541	----	0300	----	6123	0342	CPP26 C SC7	0010	0033	0100	0002	0001	0024	1073	0157	0302	OA B A TH A.CB
0020	0007	6137	6137	0156	0004	3700	7707	----	G 4 4A, D4 G	0030	0314	3335	----	0003	0157	0002	5672	----	CLO2 CA. B,
0040	0104	3533	0730	----	0002	0003	0157	2001	AD20GX B CA.PA	0050	1404	2152	----	0001	2703	4322	0547	6403	LDQ) AWC8RE* C
0060	----	----	----	7776	7651	0001	3224	0001	( AZT A	0070	0001	0100	1000	0003	2400	5600	5601	5602	AA H CT , ,A,B
0100	0005	----	----	----	0002	----	0501	0411	E B EADI	0110	0011	2000	1710	0576	3075	6050	3051	1340	IP ONE X /X(K5
0120	1006	3474	3574	3374	3350	0463	1006	0200	HF1 2 0 0/D HFB	0130	0157	0115	0005	3077	6050	1701	6010	1701	A.AM EX /OA HJA
0140	6250	3050	1071	5400	0260	0326	3311	1014	/X/H = B CVOIHL	0150	3112	6113	1073	1400	0200	0336	0100	0131	YJ KH L B C3A AY
0160	5400	0261	3413	1063	0446	5400	0260	3412	= B 1KH D-- B 1J	0170	1461	0200	0336	3014	0502	3015	3415	5400	L B C3XLEBXM1M-
0200	0152	3011	1377	0542	3015	1702	3403	3076	A1XIK E7XMOB1CX	0210	6004	0200	0513	1440	5500	0110	4003	3416	DB EKL5 AH5C1N
0220	5003	0001	3417	3003	0200	0560	0727	3607	/C A10XCB E GW3G	0230	5300	0106	0504	3407	4003	3406	3016	4403	\$ AFED1G5C1FXN9C
0240	3017	5403	0001	2000	0500	3503	5715	0003	X0=C AP E 2C.M C	0250	0545	0200	0566	0100	0153	2000	2725	0304	E+B E A A1P WUCD
0260	0014	0421	3071	2342	0420	3401	1452	6173	LDQX S7DP1AL)	0270	7762	0004	3224	----	1006	0616	2000		DZT HFFNP
0300	1701	0576	3010	1277	0334	1457	6010	3010	QAE XHJ CIL. HXH	0310	3374	0512	1411	0325	2000	1720	0676	3076	O EJLICUP OPF X
0320	6010	3010	0552	3074	1620	6010	3013	3455	HXHE)X NP HXK1	0330	3014	3456	3076	6010	1400	0100	1015	0445	XL1,X HL A HMD+
0340	3410	3076	6210	1435	3210	0646	2004	6402	1HX HL2ZHF-PD B	0350	6010	3010	3111	0572	2004	6374	6370	0271	HXHYIE PD B
0360	2004	6374	2610	6010	3014	0457	1740	0676	PO VH HXLD.05F	0370	1505	3500	0665	1477	6210	0356	0100	0376	ME2 F L HC,A C
0400	3411	1412	0200	0336	0371	0100	0405	3411	1ILJB C3C A DE1I	0410	1404	0200	0336	0371	2004	1450	6173	7763	LDB C3C PDL/
0420	2000	0006	3411	1406	0200	0336	3011	0564	P F1ILFB C3XIE	0430	4002	0520	3014	0403	6313	2073	1400	0200	5BEPXLDC KP L B
0440	0336	0100	1567	3402	5400	0435	1063	5400	C3A M 1B= D2H =	0450	0421	3076	3401	1410	3400	4002	4400	0402	DOX IALH1 589 DB
0460	3602	3600	1115	0571	3601	6210	3277	3412	3B3 IME 3A HZ 1J	0470	1703	0403	3014	0557	0100	0420	1126	0200	UCDCXLE.A DPIVB
0500	0157	5000	0476	5415	0006	0115	0007	1466	A./ D =M FAM GL	0510	6170	0100	0100	1703	2000	5720	3105	6010	A A OCP .PYE H
0520	3014	1003	1606	6170	0102	5000	0110	1340	XLHCNF AB/ AHK5	0530	0556	5000	0104	5200	0107	0420	5500	0107	E,/ AD) AGDP AG
0540	3413	1441	3412	1461	0200	0336	3011	1014	1KL61JL B C3X1HL	0550	3112	6113	0556	0340	1377	0100	1056	0100	YJ KE,C5K A H,A
0560	1462	0314	0100	2473	0334	0100	1245	1400	L CLA T C1A J+L	0570	3413	4471	0200	0766	0370	5400	0613	4771	1K9 B G C = FK+
0600	0705	3107	5300	0631	0403	0200	0671	1404	GEYG\$ FYDCB F LD	0610	0200	0753	7124	6776	0532	5000	0560	0335	B G\$ T EZ/ E C2
0620	5400	0645	1063	5400	0640	4771	0705	3107	= F+H = F5+ GEYG	0630	2300	0500	0403	0200	0671	4071	0403	2000	S E DCB F 5 DCP
0640	----	1135	0200	0753	7324	6776	0516	5000	I2B G\$ T EN/	0650	0563	6624	0651	7564	5400	0670	1412	0200	E TF( = F LJB
0660	0753	1401	7124	0013	0525	3013	0524	0100	G4LA T KEUXKETA	0670	0607	0607	3076	6010	3010	0574	3077	6204	FGFGX HXHE X D
0700	1472	0200	0336	3714	4471	3107	5400	0631	L B C34L9 YG- FY	0710	0304	0331	5400	0104	0200	0766	3012	0412	CDCY- ADB G XJDJ

RA = CP,12/XTAFP. EXPRESS 11 DSDI - V2.0 79/10/30. 10.59.47. PAGE 15  
0000000 PP26 LDQ 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - DSDI SAMPLE.

0720	0200	0753	7064	2200	2000	3413	0563	1410	B G\$ R P I KE LH	0730	4511	3077	1601	6010	1402	0200	0753	1404	+IX NA HLBB G\$LD
0740	7324	0011	0521	5000	0671	0100	0651	7424	T IEQ/ F A F( T	0750	2000	0502	0100	0661	6424	1053	7624	1601	P ERA F TH\$ TNA
0760	6524	0747	0674	0100	1053	0100	0716	5000	TG*F A H\$A GN/	0770	0110	3410	3313	0471	1377	1006	0734	0511	AH1HOKD K HFGLEI
1000	3010	1210	0406	7664	1601	0703	6424	1004	XHJHDF NAGC THD	1010	3077	6204	1433	0200	0336	4500	5010	1035	X DLOB C3+ /MH2
1020	3400	3610	3014	1724	0570	3077	6004	3010	I 3HXLOTE X DXH	1030	4411	0340	3013	4471	0317	0612	0644	0651	9IC5XK9 COFJF9F(
1040	0653	0662	0722	0740	0747	0754	0756	0760	F\$F GRG5G*G=G,G	1050	1003	1006	1023	1431	0100	0263	5000	0103	HCHFHSLYA B / AC
1060	1064	2100	1401	5400	0734	5000	0554	5400	H Q LA= G1/ E=	1070	0774	0100	0507	1404	2100	1073	----	0167	G A EGLDQ H A
1100	0200	1516	0200	1336	0200	1202	3624	3057	B MNB K3B JB3TX.	1110	0402	6220	3644	3053	1006	3155	1006	3154	DB P39X\$HFY HFY=
1120	6240	3077	6370	1135	1401	3411	1400	3412	5X I2LA1IL LJ	1130	1460	0200	0336	0100	0114	0020	0052	5024	L B C3A AL P )/T
1140	-----	0001	0100	1142	3402	4002	3330	0572	AA I718B0XE	1150	5002	0001	3331	0566	5002	0002	3332	0562	/B AOYE /B BOZE
1160	5002	0003	3333	1377	0355	0200	0566	1406	/B COOK C B E LF	1170	0200	1260	0200	0566	1400	0404	3021	0200	B J B E L DDXQB
1200	1442	0100	1201	3065	1014	3366	3201	0755	L7A JAX HLO ZAG	1210	3466	1063	3465	3003	5400	1224	3045	1006	I H I XC= JTX*HF
1220	3155	1006	3146	6301	-----	3001	3546	1063	Y HFY= A XA2-H	1230	3545	3047	0503	0100	1172	2000	6776	0200	2+X*ECA I P B
1240	1456	1071	3447	1401	5500	1141	1063	5500	L,H I*LA I6H	1250	1140	3001	0460	1402	3503	0100	1203	0100	I5XAD LB2CA JCA
1260	1257	3447	1400	0404	3021	0200	1442	3047	J.1*LD DDXQB L7X*	1270	1740	0713	5000	1140	3461	5000	1141	3462	05GK/ I51 / I61
1300	2035	1404	0200	0476	3047	1011	3544	0100	P2LDB D X*HI29A	1310	1106	0100	1311	3057	0404	1442	0200	1260	IFA KIX.ODL7B J
1320	1400	0200	0336	3074	1620	6010	3011	0565	L B C3X NP HXIE	1330	3003	0200	0560	0655	0363	0100	1104	1401	XCB E F C A IDLA
1340	5500	1141	2000	6776	0200	1456	1071	3447	I6P B L,H I*	1350	1402	3503	4003	2300	7700	0535	3003	1605	LB2C5C5 E2XCNE
1360	0200	1143	0530	5003	0001	1601	3402	1002	B I8EX/C ANA1BHB	1370	3102	3503	3001	3202	0716	3401	3044	0420	YB2CXA2BGN1AX9DP
1400	4003	1071	1750	0707	1702	0405	1703	0603	5CH O/GG0BDEQCFC	1410	0100	1335	0200	0566	1405	0200	1260	4003	A K2B E LEB J 5C
1420	2300	6000	0567	3053	1006	3155	1006	3154	S E X\$HFY HFY=	1430	1601	6030	3003	1605	0200	1143	0553	0100	NA XXCNER I8E1A
1440	1335	0100	1441	3412	3005	3411	1403	3413	K2A L61JXE1ILC1K	1450	1457	0200	0336	0365	3001	0100	1346	3403	L.B C3C XAA K-1C
1460	0200	0560	0603	0200	1312	5003	0001	3401	B E FCB KJ/C A1A	1470	4003	0505	3401	5003	0001	0457	3407	1006	5CEE1A/C AD.1GHF
1500	0653	1071	3406	1400	3407	3001	1071	0444	F\$H IFL 1GXA H D9	1510	5003	0001	3401	0100	1455	0100	1102	1400	/C A1AA L A I6L
1520	3457	3053	1237	3453	1014	3354	1702	0705	L.X\$J41\$HQB=0BGE	1530	1605	1071	3256	0704	1440	0200	1260	3053	NEH Z,GDL58 J X\$
1540	1006	3155	1006	3154	6040	1602	6010	1601	HFY HFY= 5NB HNA	1550	6030	3043	1377	3443	3044	2200	0776	3444	XX8K 18X9R G 19
1560	1076	1702	0704	1401	0200	1260	3013	1237	H 0BGDLAB J XKJ4	1570	3445	1014	3314	3446	1702	0711	3033	1237	I+HLOLI-0BGIXOJ4
1600	1014	3334	1701	1071	3256	0704	1402	0200	HLO10AH Z,GDLBB	1610	1260	3033	1237	1014	3334	3246	3466	1063	J XOJ4HLO12-1 H
1620	3245	3465	1014	3366	0761	0460	3033	1377	Z+1 HLO G D XOK	1630	1006	3332	1006	0432	3464	1063	1277	3463	HFOZHF0Z1 H J 1
1640	3053	1006	3155	1006	3154	1602	6030	3040	X\$HFY HFY=NB XX5	1650	2300	7777	0404	0200	1706	0303	0200	1775	S DDB OFCCB O
1660	0200	2174	0200	2011	0604	1404	0200	1260	B Q B P1FDLDB J	1670	3057	0510	0200	0513	1440	5500	0110	0100	X.EHB EKL5 AHA
1700	1515	0200	0513	0100	1515	0100	1655	3040	MMB EKA MMA N X5	1710	2200	3777	3440	0200	2061	0504	1403	0200	R 4 15B P EDLCB
1720	1260	0200	2124	0404	1441	0200	1260	3013	J B QTDOL6B J XK	1730	1204	0564	3022	0462	3020	1277	3405	5100	JDE XRD KPJ 1E1
1740	0515	6000	3000	1006	0651	3021	3406	3014	EM X HFF(XQ1FXL	1750	1071	1112	0520	3013	1230	0415	0200	2142	H IJEPKXJXDMB Q7
1760	0406	3624	3057	6220	0100	1121	5600	1174	DF3TX. PA IQ, I	1770	5600	1262	0100	1705	0100	1774	1404	6010	/ J A OEA O LD H
2000	3610	6010	3011	3406	3010	1277	3405	0364	3H HX11FXHJ 1EC	2010	0100	1664	3006	3400	3000	3406	1075	2101	A N XF1 X 1FH QA
2020	3240	6010	3006	1203	3401	5001	0010	3400	Z5 HXFJCIA/A H1	2030	1006	0617	1500	5300	0106	3564	0655	3664	HFFOM \$ AF2 F 3
2040	3763	0652	5000	0106	3164	3407	0100	2010	4 F1/ AFY 1GA PH	2050	1071	3264	0773	3063	0467	1500	0367	3457	H Z G X D M C 1.
2060	0100	1715	1404	6010	1402	3510	6020	3311	A OMLD HL82H POI	2070	0466	3020	0471	3340	0567	3024	3351	1237	D XPD 05E XTO1J4
2100	0563	3041	3321	0560	3042	3322	0555	3043	E X60QE X70RE X8	2110	3323	1377	0551	3610	3457	0342	3057	6020	QSK E13H1.C7X. P
2120	1701	6010	1400	0100	1723	3077	6220	3057	QA HL A OSX PX.	2130	3414	1400	3413	1456	0200	0336	3011	0456	1LL 1KL,B C3XID,
2140	0362	0100	2141	3005	3411	3006	3412	1402	C A Q6XE1IXF1JLB	2150	3413	1457	0200	0336	3011	0463	1500	3401	1KL.B C3XID M 1A
2160	1400	0200	0336	3074	1620	6010	3011	0551	L B C3X NP HXIE(	2170	3701	0666	0350	0100	1662	0200	0513	3014	4AF C/A N B EKXL
2200	1003	1620	3272	5400	2020	1063	2300	2100	HCNPZ = PPH S Q	2210	5400	2017	0100	2173	-----	-----	1601	6250	= PDA Q NA /
2220	1616	6230	2000	6776	0200	2251	3016	3203	NN XP B R(XNZC	2230	0540	0100	2166	0323	0100	1273	0200	2240	E5A Q CSA J B R5
2240	3044	1337	3444	3057	6220	1701	6240	0364	X9K419X. POA 5C	2250	0100	2226	5400	2266	3402	3007	1601	4402	A RV= R 18XGNA9B
2260	2300	1200	0503	4025	4402	2030	6776	0200	S J EC5U9BPX B	2270	0563	3607	2300	1200	0553	3407	4025	3406	E 3G5 J E\$1G5U1F
2300	3625	4025	0545	3076	6010	3010	0574	0200	3U5UE+X HXHE B	2310	0566	0200	2132	0100	2250	0100	1265	3074	E B QZA R/A J X
2320	1625	6010	3014	0411	1401	3412	1400	3411	NU HXL0ILA1JL I1	2330	1421	0200	0336	0363	3056	0457	1400	3412	LQB C3C X,D.L 1J
2340	3411	1421	0200	0336	0367	0100	2345	3065	11LQB C3C A S+X	2350	1006	1603	6010	3045	1003	1006	3111	1006	HFCB HX+HCHFYIHF
2360	3165	1006	3112	3447	1063	3446	1014	3147	Y HFYJ1*H I-HLY*	2370	0354	0100	1215	2000	3777	5400	6776	1477	C=A JMP 4 = L
2400	5400	6777	3057	0406	5400	7011	1701	6170	= X.DF= IOA	2410	7000	3005	5400	7005	3006	5400	7006	1427	XE= EXF= FLW
2420	6170	7012	5600	7012	1400	3407	1601	5400	J, JL IGNA=	2430	7007	2030	6776	0200	0563	5000	7007	3407	GPX B E / GIG
2440	0100	2371	0100	1243	3057	0404	1701	6173	A S A J8X.DDOA	2450	7000	1427	6170	7012	3006	5400	7007	3007	LW JXF= GXG
2460	5400	7010	1400	5400	6777	5400	6776	2000	= HL = P	2470	6776	0200	0563	0100	2442	0005	0010	-----	B E A T7 E H
2500	-----	-----	-----	-----	-----	-----	-----	-----		2510	-----	1603	0600	-----	0001	1215	0013	4724	NCF AJM K*Y
2520	4724	0001	0005	0303	2014	1701	0401	1215	*T A ECCPLODAJM	2530	0013	5130	5132	0703	0405	3232	3232	3204	KIXIZGCDEZZZZZD

RA = CP,12/XTAPP.										EXPRESS 11										USD1 - V2.0 79/10/30. 10.59.47.										PAGE 16									
0000000 PP26 LDQ 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.																				NOS 1-8J03T/R28.										NOS 1.4 STUDY DUMP - USD1 SAMPLE.									

2540	1600	1515	0004	4217	5277	0105	0303	1116	N MM D701 AECCIN	2550	2025	2400	0001	0055	0005	4063	4063	0010	PUT A E5 5 H
2560	0005	0356	0100	2562	3401	3074	1622	6010	EC,A U IAX NR H	2570	3012	1066	3402	3001	3412	3074	1622	6210	XJH 18XA1JX NR H
2600	3002	0360	0100	1110	3037	1104	0504	5000	XBC A IHX4IDED/	2610	1166	0470	1404	6010	3011	3210	1677	1071	I D LD HXIZHN H
2620	1605	3127	3156	1017	5100	1177	1003	5400	NEYMY,H0( I HC=	2630	3003	1063	5400	3002	3077	6335	2772	1401	XCH = XBX 2W LA
2640	3412	1402	3411	1460	0200	0336	1442	6010	1JLB11L B C3L7 H	2650	5000	3002	1277	3413	1014	5300	3003	3414	/ XBJ IKHL5 XCIL
2660	3211	1056	0402	1413	1103	3412	5000	1177	ZIH,DBLKIC1J/ I	2670	0412	3056	2177	7677	0606	1476	0200	0336	DJX,Q FFL B C3
2700	0100	2744	1400	3411	1455	0200	0336	3011	A W9L 11L B C3XI	2710	3405	3520	3014	3421	2400	3406	0426	0200	1E2PXL1QT 1FDVB
2720	0513	3014	1003	1620	3272	5400	2145	1063	EKXLHCNP2 = Q+H	2730	5500	2144	5000	0106	5400	2261	5400	2273	Q9/ AF= R = R
2740	0200	2132	0100	2602	3052	1201	0413	2000	B QZA VBX1JADKP	2750	4135	3415	2033	0406	0200	0476	0200	2512	621MPODFB D B UJ
2760	1401	0200	2563	0404	1447	0200	0336	1402	LAB U DDL+B C3LB	2770	0100	1274	0002	0132	4430	-----	0001	-----	A J BAZ9X A
3000	0132	0044	-----	0204	0100	1102	1400	3427	AZ 9 BDA IBL 1W	3010	1402	3435	3426	3056	2177	7677	5400	1555	LB121VX,Q = M
3020	1403	6010	3051	1237	1001	3110	6030	3436	LC HX1J4HAYH X13	3030	3030	5500	1452	3031	5400	1453	3074	1620	XX L1XY= L5X NP
3040	6040	1602	6010	1604	6003	1636	6060	1606	5NB HND CN3 NF	3050	6030	2000	0302	3417	3041	1120	0520	5700	XP CB10X6IPEP.
3060	1372	3017	5400	1233	5400	1235	5400	1263	K XO= JO= J2= J	3070	5400	1104	5400	1116	5400	1231	3003	0511	= ID= IN= JYXCEI
3100	3012	2200	7000	3142	3141	0503	3033	3334	XJR Y7Y6ECX001	3110	0533	3031	1006	0630	3052	1101	0425	3074	EOXYHFFXX1IADUX
3120	2100	0101	6010	1601	6040	3040	0515	3010	Q AA HNA 5XSEMXX	3130	1017	0712	3074	1670	6030	3033	1377	3132	HOGJX N XXOK YZ
3140	0503	5400	1166	3074	1601	5400	2214	1624	EC= I X NA= RLNT	3150	6030	1644	6010	1621	6040	3043	1201	0412	XN9 HNQ 5X8JADJ
3160	2000	1401	5400	3645	3743	3074	2100	0112	P LA= 3+48X U AJ	3170	6240	3034	5400	2011	5400	1177	0507	3056	5X1= P1= I EGX,
3200	5400	1555	3017	5400	1235	3010	3457	3061	= M XO= J2XHL X	3210	3162	3163	3164	0402	1440	3403	1466	6060	Y Y Y DBL51CL
3220	3011	0415	1701	6135	2477	3052	1101	0504	XIDMOA 2T X1IAED	3230	3053	1020	0604	3011	5400	2123	3074	1621	X5HPFDXI= Q5X NQ
3240	6040	3003	3444	3043	1277	3437	3052	1101	5XC19X8J 14X1IA	3250	0416	3037	1103	0513	3074	1150	6010	3011	DNX4ICEKX I/ HXI
3260	1014	0603	0200	3766	1501	0334	3017	5400	HLFCB 4 MAC1X0=	3270	1104	5400	1116	5400	1231	3036	6135	7050	ID= IN= JYX3 2 /
3300	3057	0502	1467	1701	6135	7062	3052	1101	X.EBL DA 2 X1IA	3310	0437	3037	1104	0406	3074	1067	0527	0100	D4X4IDDFX H EWA
3320	3527	2136	2221	0200	0476	2000	0220	6010	2WQ3RQB D P BP H	3330	3013	3465	3074	1621	6010	0200	4075	1410	XK1 X NQ HB 5 LH
3340	3402	0200	2346	6102	7240	0100	3004	3053	1BB S= B 5A XDX5	3350	1017	0614	5000	3541	5400	1326	3017	5400	HOFL/ 26= KVXU=
3360	1223	5400	1233	0100	3456	3074	2100	0101	JS= JOA 1,X Q AA	3370	6030	1601	6010	3011	1016	0717	3013	1237	XNA HX1HNGOXKJ4
3400	1014	3314	0412	5400	1421	1063	5500	1420	HLOLDJ= LQH LP	3410	2000	1420	5400	1414	3030	1017	0620	3033	P LP= LLXXHQFPX0
3420	1237	1014	3334	0413	1601	5400	1436	1063	J4HLO1DKNA= L3H	3430	5500	1435	2000	1404	5400	1431	3011	1015	L2P LD= LYX1HM
3440	0705	3055	1006	1601	6260	3054	0413	5400	GEX HFNA X=DK=	3450	1555	3256	0704	3056	5400	1555	3017	5400	M Z,GDX= M XO=
3460	1235	3017	5400	1225	5400	1231	5400	1110	J2XO= JU= JY= IH	3470	3053	1020	0706	3017	5400	1227	5400	1114	X5HPGFQ= JW= IL
3500	3053	1201	1101	5500	3624	2000	1405	5400	X5JAIA 3TP LE=	3510	3645	1704	5400	3647	3017	5400	3654	5000	3+OD= 3*XO= 3=/
3520	3764	5400	3664	2000	3422	5400	2714	2000	4 = 3 P 1R= WLP	3530	3103	5400	2172	5000	2233	5400	2177	0100	YC= Q / RO= Q A
3540	3004	0315	0100	1104	1466	6020	3052	0415	XDCMA IDL XPIDM	3550	1400	3442	3443	2047	0415	3440	1071	1377	L 1718P+DM15H K
3560	3441	3053	1020	0603	3057	0527	2000	4077	16X5HPFCX.EWP 5	3570	3420	2000	4135	3415	2033	0206	0200	0476	1PP 621MPO8FB D
3600	2400	0603	0100	3745	3052	1101	0504	2000	T FCA 4+X1IAEDP	3610	7400	3420	1400	3444	3051	1237	3144	2300	1PL 19X1J4Y9S
3620	0100	3444	3052	0413	1400	3543	3053	1017	A 19X1DKL 28X5HU	3630	0606	2000	1400	3544	5500	1161	3074	1622	FFP L 29 I X NR
3640	6010	1640	6030	1601	6003	1401	3424	3056	HN5 XNA CLA1TX,	3650	3423	3020	1377	3420	5000	1177	3422	3074	1SXPK 1P/ I 1RX
3660	1671	6010	3012	1013	0627	3014	3424	3013	N HXJHKFWXL1TXK	3670	3422	3012	1006	3420	2000	0300	3544	4131	1RXJHF1PP C 296Y
3700	7777	3413	3012	2200	7600	3412	3074	2100	1KXJR 1JX Q	3710	0071	6210	0310	3024	2177	0014	0704	3074	HCHXTQ LGDX
3720	1076	3420	3033	0404	3423	1400	3433	3434	H 1PXODD1SL 1011	3730	3006	0404	3422	1400	3406	3407	3074	1662	XFD01RL 1F1GX N
3740	6230	1601	6203	0100	3542	3052	1201	0404	XNA CA 27X1JADD	3750	0200	2512	1401	0200	2563	0404	1447	0200	B UJLAB U DDL+B
3760	0336	1402	0100	1274	0336	0100	3765	3074	C3LBA J C3A 4 X	3770	1121	6170	4123	1172	6170	4130	1130	6170	IQ 6SI 6X1X
4000	4135	5000	4135	1377	1101	5400	4135	2000	62/ 62K IA= 62P	4010	4123	5400	4136	2000	4142	3415	2033	0125	6S= 63P 671MPOAU
4020	0200	0476	1702	0741	5700	4057	3401	0614	B D OBG6. 5.1AFL	4030	1400	3411	1466	0200	0336	2004	4060	0200	L 11L B C3P05 B
4040	0442	0100	3765	3701	0746	5000	0112	5400	07A 4 AG= / AJ=	4050	4051	-----	0576	1400	0200	0336	0364	0010	51 E L B C3C H
4060	0125	2322	5655	3534	4444	3335	5736	3540	AUSR, 219402.325	4070	2516	2423	5700	-----	0100	4074	3011	1701	UNTS. A 5 X10A
4100	1207	1011	3445	2077	4444	3512	3012	2200	JGH11+P 992JXJR	4110	0700	3545	3012	1207	1003	3545	3013	1071	G 2+XJJGH2+XKH
4120	1733	3545	0351	0100	4123	0200	1541	1607	002+CIA 6SB M6NG	4130	6010	3013	1377	1006	3312	0465	1006	3467	HXXK HFOJD HF1
4140	1063	1237	3466	3013	1237	3462	1014	3314	H J41 XKJ41 HL0L	4150	3463	1702	0603	0100	4331	1602	1006	3166	1 UBFC A 8YNBHFY
4160	1014	3167	1071	3256	0630	1466	6010	1400	HLY H Z,FXL HL	4170	3401	3402	3062	3101	1006	3155	1006	3163	1A1BX YAHFY HFY
4200	3102	6210	3602	1063	3501	3366	0563	3002	YB H3B1 2AO E XB	4210	3367	0560	3006	0503	0100	4123	0200	4457	O E XFECA 6SB 9.
4220	1701	0506	3002	0504	3003	1101	0465	0200	0AEFXBEOXC1AD B	4230	3732	1400	3425	5400	6764	2000	6764	0200	4ZL 1U= P B
4240	4420	0411	3625	3066	1014	3167	3201	0604	9PDI3UX HLY ZAFD	4250	3067	3401	0430	3062	1006	3155	1006	3163	X 1ADXX HFY HFY
4260	6301	6766	3001	3563	1063	3562	3066	1014	A XA2 H 2 X HL	4270	3167	3201	3467	1063	3466	3001	1071	0403	Y ZAI H 1 XAH DC
4300	0100	4235	0200	0566	3025	0407	5500	1377	A 72B E XUDG K	4310	1063	5500	1376	0332	3044	1240	0513	3057	H CZX9J5EKK.
4320	6020	2000	0100	5500	3723	3022	3406	3023	PP A 4SXR1FXS	4330	3407	0200	1541	1601	6010	3011	2200	3777	1GB M6NA HXIR 4
4340	3411	0200	1541	1601	6210	0100	4123	0100	11B M6NA HA 6SA	4350	4347	3006	3400	3000	3406	1075	2100	7070	8*XFI X 1FH Q

RA = CP,12/XTAFF. EXPRESS 11 OSDI - V2.0 79/10/30. 10.59.47. PAGE 17  
0000000 PP26 LDQ 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - OSDI SAMPLE.

4360	6010	3006	1203	3401	5001	0010	3400	1006	HXFJC1A/A H1 HF	4370	0617	1500	5300	0106	3537	0655	3637	3736	FOM \$ AF24F 3443
4400	0652	5000	0106	3137	3407	0100	4347	1071	F1/ AFY41GA 8*H	4410	3237	0773	3036	0467	1500	0367	3001	0100	Z4G X3D M C XAA
4420	4417	3403	0200	0560	0603	0200	1565	5003	901CB E FCB M /C	4430	0001	3401	4003	0505	3401	5003	0001	0457	A1A5CEE1A/C AD.
4440	3407	1006	0653	1071	3406	1400	3407	4003	1GHFF\$H 1FL 1G5C	4450	0403	5003	0001	3401	0100	4417	0100	4456	DC/C A1AA 90A 9,
4460	1400	3403	3402	3400	3006	1075	2100	7070	L 1C1B1 XFM Q	4470	6010	3006	1203	3401	5001	0010	1006	0612	HXFJC1A/A HHFFJ
4500	1071	3406	5000	0106	3503	1063	3502	3600	H 1F/ AF2CH 2B3	4510	0353	1071	3407	3503	1063	3502	3600	0100	C\$H 1G2CH 2B3 A
4520	4456	0100	4521	3006	1075	2100	7070	6010	9,A +QXEH Q H	4530	3006	1203	3401	5001	0010	0363	1071	3306	XFJC1A/A HC H OF
4540	0424	3306	3400	1203	3401	5000	0106	3537	DTOF1 JC1A/ AF24	4550	1063	3536	3000	1075	2100	7070	6010	5001	H 23X H Q H/A
4560	0010	1006	0753	1401	0100	4564	3403	3007	HHFG\$LA A + 1CXG	4570	3437	1063	3436	3003	0364	1400	3435	3020	14H 13XCC L 12XP
4600	1277	3405	3023	3407	3022	3406	0403	0200	J 1EXS1GXR1FOCB	4610	4643	3045	0503	0100	3315	1202	0403	0100	-8X+ECA OMJB0CA
4620	3350	3436	1401	3437	3045	1071	1207	3401	0/13LA14X+H JG1A	4630	5001	4634	3401	0101	----	3540	3477	3440	/A-11AAA 251 15
4640	4575	3670	0100	4611	0200	0513	3014	1003	+ 3 A -1B EKXLHC	4650	1620	3272	5400	4357	5400	4467	5400	4526	NPZ = 8. = 9 = +V
4660	5400	4555	1063	2300	2100	5400	4356	5400	= + H S Q = 8, =	4670	4466	5400	4525	5400	4554	0100	4642	----	9 = +U= +A -7
4700	----	2313	0214	5323	2100	----	0001	0010	SKBL\$SQ A H	4710	4500	----	0250	2313	0614	5323	2100	----	+ B/SKFL\$SQ
4720	0001	----	5400	----	0261	2313	1120	5323	A = B SKIP\$S	4730	2100	----	0001	0002	6600	----	0262	2313	Q A B B SK
4740	2302	5323	2100	----	0001	0001	3000	----	SB\$SQ A AX	4750	0266	2313	2306	5323	2100	----	0001	----	B SKSF\$SQ A
4760	7700	----	0270	2701	2253	2321	----	----	B WAR\$SQ	4770	0001	0002	1100	----	0272	2705	1730	5323	A B1 B WEOX\$S
5000	2100	----	0001	0001	7200	----	0275	2215	Q A A B RM	5010	5315	2307	2300	----	0001	0022	1200	----	\$MSG\$ A RJ
5020	0300	2215	5330	0611	2400	----	0001	0002	C RM\$XFIT A B	5030	0600	----	0323	0705	2453	0625	----	0016	F CSGET\$FU N
5040	0001	0001	4500	----	0125	0705	2453	2200	A A+ AUGET\$R	5050	----	0016	0001	0001	3200	----	0127	0705	N A AZ AWGE
5060	2453	2300	----	0016	0001	0005	0014	----	T\$S N A E L	5070	0131	0705	2453	2700	----	0016	0001	----	AYGET\$W N A
5100	7400	----	0137	0705	2453	3200	----	0016	A4GET\$Z N	5110	0001	0001	5100	----	0141	0705	2453	2701	A A1 A6GET\$WA
5120	----	0016	0001	0002	2300	----	0143	0720	N A BS ABGP	5130	2415	5323	2100	0016	0001	0005	0700	----	TM\$SQ N A EG
5140	0146	1401	0214	5322	1500	0016	0001	0003	A-LABL\$RM N A C	5150	5000	----	0154	1402	2506	5322	1500	0016	/ A-LBUF\$RM N
5160	0001	0001	4700	----	0160	1404	2224	5301	A A+ A LDRT\$A	5170	0100	0016	0001	----	3200	----	0162	1720	A N A Z A UP
5200	0516	5322	1500	0016	0001	0015	0200	----	EN\$RM N A MB	5210	0163	2025	2453	2321	----	0016	0001	0007	A PUT\$SQ N A G
5220	3200	----	0201	2025	2453	0311	----	0016	Z BAPUT\$CI N	5230	0001	0001	0700	----	0211	2025	2453	0513	A AG BIPUT\$EK
5240	----	0016	0001	0001	5400	----	0213	2025	N A A= BKPU	5250	2453	0424	----	0016	0001	0001	0200	----	T\$DT N A AB
5260	0215	2025	2453	2200	----	0016	0001	----	BMPUT\$R N A	5270	5000	----	0217	2025	2453	2300	----	0016	/ BOPUT\$S N
5300	0001	0004	3700	----	0220	2025	2453	2700	A D4 BPPUT\$W	5310	----	0016	0001	0002	5000	----	0225	4000	N A B/ BUS
5320	----	----	0141	4000	----	----	----	----	A65	5330	0111	4000	----	----	0066	4000	----	----	A15 5
5340	----	0245	4000	----	----	----	0160	----	B+5 A	5350	0705	2453	2701	----	4000	----	----	----	GET\$WA 5
5360	----	0143	4000	----	----	0072	0720	----	AB5 GP	5370	2415	5323	2100	----	4000	----	----	----	TM\$SQ 5
5400	0146	1401	0214	5322	1500	----	4000	----	A-LABL\$RM 5	5410	----	0154	1402	2506	5322	1500	----	----	A-LBUF\$RM
5420	4000	----	----	0160	1404	2224	5301	----	5 A LDRT\$A	5430	0100	----	4000	----	----	0162	1720	----	A 5 A OP
5440	0516	5322	1500	----	2324	0624	5322	1500	EN\$RM STFT\$RM	5450	----	4000	----	----	0163	0614	2310	----	5 A FL\$H
5460	5323	2100	----	2024	0315	5323	2100	----	\$SQ PTCM\$SQ	5470	2024	0614	5323	2100	----	2024	0717	5323	PTFL\$SQ PTC0\$S
5500	2100	----	2024	0734	5323	2100	----	2024	Q PTG1\$SQ PT	5510	1117	5323	2100	----	2024	1420	5323	2100	10\$SQ PTLP\$SQ
5520	----	2024	2224	5323	2100	----	2025	2453	PTRT\$SQ PUT\$	5530	2321	----	4000	----	----	0201	----	----	SQ 5 BA
5540	4000	----	0066	4000	----	----	----	----	5 5	5550	----	0272	4000	----	----	0160	2002	----	B 5 A PB
5560	1602	5323	2100	----	2025	2453	0300	----	NB\$SQ PUT\$C	5570	----	2025	0112	4031	3334	3703	0100	0005	PUAJ5Y014CA E
5600	5250	----	0435	4004	----	----	----	----	1/ D25D	5610	----	----	----	----	----	----	----	----	----
5620	----	----	----	----	----	----	----	----	----	5630	----	----	----	----	----	----	----	----	----
5640	----	----	----	0160	2025	2453	----	----	A PUT\$	5650	0400	----	----	2025	2453	2400	----	----	D PUT\$T
5660	4000	----	----	0215	2025	2453	2200	----	BMPUT\$R	5670	----	4000	----	----	----	0217	0614	----	5 BOFL
5700	2310	5323	----	2025	2453	2300	----	----	SH\$S PUT\$S	5710	----	4000	----	----	0220	4000	----	----	5 BP5
5720	----	0066	4000	----	----	0160	----	----	5 A	5730	2025	2453	2700	----	2025	2453	2706	----	PUT\$W PUT\$WF
5740	----	2025	2453	2711	----	2025	----	----	PUT\$WI PU	5750	2453	2724	----	4000	----	----	----	----	5
5760	0225	2025	2453	3200	----	2025	2453	----	BUPUT\$Z PUT\$	5770	3224	----	4000	----	----	0230	----	----	5
6000	2025	2453	2701	----	4000	----	----	----	PUT\$WA 5	6010	----	0232	4000	----	----	0072	2205	----	5
6020	2014	5323	2100	----	4000	----	----	----	PL\$SQ 5	6030	0235	2205	2753	2321	----	4000	----	----	5
6040	----	0242	2220	0553	2321	----	----	----	B7RPE\$SQ	6050	4000	----	----	0245	4000	----	----	----	5
6060	----	0111	4000	----	0066	4000	----	----	A15 5	6070	----	----	0160	2313	0214	5323	2100	----	5 A SKBL\$SQ
6100	----	4000	----	0250	2313	0614	----	----	5 B/SKFL	6110	5323	2100	----	4000	----	0261	----	----	5
6120	4000	----	0111	4000	----	----	----	----	5 A15	6130	----	0066	4000	----	----	0245	4000	----	5
6140	----	0160	2313	1120	5323	2100	----	----	A SKIP\$SQ	6150	----	4000	----	----	0262	2313	2302	----	5
6160	5323	2100	----	4000	----	0266	----	----	\$SQ 5 B	6170	2313	2306	5323	2100	----	4000	----	----	5

6200	----	0270	2701	2253	2321	-----	-----	4000	B	WAR\$SQ	5	6210	----	----	----	0272	2705	1730	5323	2100	B	WEQX\$SQ	
6220	----	4000	----	----	----	0275	4000	----	5	B	5	6230	----	----	0272	2215	5305	2401	0200	----	B	RM\$ETAB	
6240	2215	5316	2401	0200	----	4000	----	----	RM\$NTAB	5		6250	----	0300	2215	5330	0611	2400	----	4000	C	RM\$XFIT	
6260	----	----	----	0323	2025	2453	0300	----		CSPUT\$C		6270	----	----	2025	2453	1100	----	----	4000	PUT\$I	5	
6300	----	----	0211	2025	2453	0500	----	----		BIPUT\$E		6310	2025	2453	1300	----	----	4000	----	----	PUT\$K	5	
6320	----	0213	4000	----	----	----	0201	4000	BK5	BA5		6330	----	----	----	0066	4000	----	----	----		5	
6340	0272	4000	----	----	----	0160	2025	2453	B	5	A	PUT\$	6350	0400	----	----	2025	2453	2400	----	D	PUT\$T	
6360	4000	----	----	----	0215	2025	2453	2200	5		BMPUT\$R	6370	----	----	4000	----	----	0217	0614		5	BOFL	
6400	2310	5323	----	----	2025	2453	2300	----	SH\$S	PUT\$S		6410	----	4000	----	----	0220	4000	----	----		5	BP5
6420	----	----	0066	4000	----	----	----	0160	5		A	6430	2025	2453	2700	----	2025	2453	2706	PUT\$W	PUT\$WF		
6440	----	----	2025	2453	2711	----	2025	2025		PUT\$WI	PU	6450	2453	2724	----	4000	----	----	----	T\$WT	5		
6460	0225	2025	2453	3200	----	2025	2453	2453	BUPUT\$Z	PUT\$		6470	3224	----	4000	----	----	----	0230	ZT	5	BX	
6500	2025	2453	2701	----	4000	----	----	----	PUT\$WA	5		6510	----	0232	4000	----	----	0072	5700		BZ5	.	
6520	----	5525	1622	0503	1726	0522	0504	5515		UNRECOVERED	M	6530	0123	2355	2324	1722	0107	0555	0522	2217	ASS	STORAGE	
6540	2257	----	5517	2605	2214	0131	5514	1723	R.	OVERLAY	LOS	6550	2457	----	----	0100	6232	1400	3402	T.	A	ZL	
6560	5002	7500	0470	3310	0516	5002	7501	3311	/B	D	OHEN/B	AOI	6570	0512	5002	7502	3312	0506	5002	7503	3313	EJ/B	
6600	1377	0452	1405	3502	0353	0100	6277	3010	K	DJLE2BC\$A	XH	6610	2300	1725	0572	3011	2300	2420	0566	3012	S	QUE	
6620	2300	2524	0562	3013	1377	0357	3232	3232	S	UTE	KKK	C.ZZZZ	6630	3217	2500	1500	0075	----	----	0005	ZOU	M	
6640	4411	2000	4507	5400	2237	3074	1650	6010	9IP	+G=	R4X	N/	6650	1615	6030	3030	1071	5500	4732	3054	0514	NM	
6660	3010	2200	2400	0410	1065	0402	1403	1102	XHR	T	DHM	DBLCIB	6670	1006	5500	4676	5000	2505	0416	5400	4605	HF	
6700	5000	2504	1277	5500	4604	3077	6370	2477	/	UDJ	-DX	T	6710	1701	6170	5004	3074	1662	6010	3011	5400	DA	
6720	5010	3210	1701	0704	1400	5400	5010	3074	/HZHDAGDL	=	/HX		6730	1665	6030	1610	6010	3011	0200	7006	5400	N	
6740	6476	1063	5500	6475	3030	1277	1014	3131	H	XXJ	HLYY		6750	0432	1601	5400	6212	1071	3256	0706	2000	N	
6760	0311	5400	5407	0317	0026	0011	5534	5743	CI=	-GCD	V	I	6770	3335	5555	5555	5555	5534	5740	----	----	OZNA=	
7000	1116	2025	2400	0001	0055	0001	4131	4131	INPUT	A	A6Y6Y		7010	0164	0001	----	1110	2120	2735	1411		1.5	
7020	1613	3555	5500	----	0060	----	0013	----	NK2		K		7030	0004	0260	----	----	----	----	----	A	A	
7040	----	----	----	----	----	----	----	----					7050	----	----	----	----	----	----	----		DB	
7100	----	----	----	----	----	----	----	----					7110	----	----	----	----	----	2300	0050		S	/
7120	----	----	----	0012	0003	----	----	----		J	C		7130	----	----	----	----	----	----	----			
7140	----	----	----	----	----	----	----	----					7150	----	----	----	----	----	----	----			
7200	----	----	----	----	1300	0035	1415	----		K	2LM		7210	0103	3334	3335	----	----	----	----	AC0102		
7220	0001	1540	0164	1417	0020	3401	1511	0315	AMSA	LD	PIAMICH		7230	0103	0012	0003	0010	----	----	----	AC	J	
7240	----	----	----	0600	0027	----	----	----	F	M			7250	0012	0002	----	----	----	----	----	J	B	
7260	----	----	----	----	----	----	----	----					7270	----	----	----	----	----	----	----			
7320	----	----	----	----	----	----	----	----					7330	----	----	1300	0014	2325	2011	1711	1604	K	LSUPIOIND
7340	0530	0420	1041	----	----	----	1404	0233	EXDPH6	LD80			7350	3333	3333	----	----	4000	----	0052	0000	5	J
7360	1414	1703	3333	3333	----	----	0001	5000	LL0C0000	A/			7370	----	0651	1414	1703	3333	3334	----	F	LL0C0001	
7400	0001	3000	----	0653	1414	1703	3333	3335	AX	F\$LL0C0002			7410	----	----	0001	1300	----	0655	1414	1703	AK	F
7420	3333	3336	----	----	----	5000	----	----	0003	/			7430	1414	1703	3333	3337	----	0001	5500	LL0C0004	A	
7440	----	0661	1414	1703	3333	3340	----	----	F	LL0C0005			7450	0002	1300	----	0663	1414	1703	3333	3341	BK	
7460	----	0003	7100	----	0666	1414	1703	----	C	F	LL0C		7470	3333	3342	----	0003	7100	----	0672	0007	C	
7500	3232	3232	3211	1600	1512	3232	3232	3217	ZZZZZIN	MJZZZZZ			7510	2500	1512	----	0040	0061	0066	0056	0062	U	
7520	0060	0056	0064	0064	0377	0027	7533	0040	,	C	W	O	7530	0040	0040	0040	7574	0101	0107	0105	0377	5	
7540	0025	7544	0040	0040	7600	2235	7777	7777	U	9	5	5	7550	0377	0240	0123	7362	0377	0225	0067	7410	C	
7560	0377	0225	0117	7420	0377	0233	0106	7460	C	BUAU	PC	BOAF	7570	0377	0242	0067	7503	0377	0224	0120	7534	C	
7600	0377	0221	0061	7545	1554	1434	0424	3556	C	BQ	+M=L1DT2,		7610	0424	5414	2056	1101	2020	1454	2202	0656	C	
7620	2403	5435	3333	2524	5655	----	5555	5555	TC	=200UT,			7630	5555	5555	5555	0114	0601	1554	3356	0114	DT=LP,	
7640	2516	5416	1020	2237	5623	2411	2054	1537	UN=NHPR4,	STIP=M4			7650	0123	0311	1157	----	----	----	----	----	ALFAM=	
7660	----	----	----	----	5514	3404	2436	0055		L1DT3			7670	5555	2405	2215	1116	0114	5523	2411	2054	ASCII.	
7700	1537	0356	5624	----	----	----	----	----	M4C,	T			7710	----	0100	----	0500	0354	4234	3757	A	TERMINAL	
7720	----	----	5514	3404	2437	0055	5555	2405		L1DT4	TE		7730	2215	1116	0114	5523	2411	2054	1537	0356	E	
7740	5624	0354	4234	3757	----	5514	3404	----	,TC=714.	L1D			7750	2440	0055	5555	2405	2215	1116	0114	5523	RMINAL	
7760	2411	2054	1537	6313	0336	5600	1753	3014	TIP=M4	KC3,	D\$XL		7770	3446	0514	3615	0312	6112	0556	0100	0420	T5	

EQUIPMENT 06 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 013350 3140	Y5	FX+ A	ALLOCATION FLAGS	DILL 013363 0000	0
RESERVED	0000			CH 2 ACCESS 7154 FLAG	61	
LENGTH OF TRT	0630			CH 1 ACCESS 7154 FLAG	60	
FIRST AVAIL TRACK PTR	4572			CH 4 ACCESS 7154 FLAG	00	
NUM AVAILABLE TRACKS	0163			CH 3 ACCESS 7154 FLAG	00	
FLAGS / INTERLOCK	ACGL 013351 0000	D2	A	BIT 21 IS MAINTENANCE MODE	0	
DA ECS CHAIN FIRST TRACK	0000			MEMORY TYPE - 3 BIT VALUE	0	
DIRECT ACCESS FILE CNT	0435			CPU TYPE - 3 BIT VALUE	0	
FIRST TRACK IQFT	0000			PP PATH TYPE - 3 BIT VALUE	0	
REDEFINITION STATUSES	01			RESERVED	00	
PF UTILITY INTERLOCK	00			ALGORITHM INDEX	04	
ECS ADDRESS MST/TRT	SDGL 013352 00000000			DAYFILE TRACK	DULL 013364 0000	
ECS UPDATE COUNT	0000000000			ACCOUNT FILE TRACK	0000	
MACHINE MASK INTERLOCK	00			ERRLOG TRACK	0000	
FIRST TRACK IAPF	ALGL 013353 4042	575	58 5	SYSTEM TABLE TRACK	0000	
LABEL TRACK	4000			FAMILY IDLE STATUS	0	
FIRST TRACK PERMITS	4043			FAMILY ACTIVITY COUNT	000	
NUMBER CATALOG TRACKS	0040			LOCAL STATUS FLAGS	STLL 013365 0000	62 B I
FIRST TRACK DAT	0000			RESERVED	00	
FAMILY OR PACK NAME	PFGL 013354 16172303142310	N0SCLSH5	A	ERROR STATUS	00	
DEVICE NUMBER	40			MACHINE ID	4135	
RESERVED	00			CURRENT USER COUNT DAF	0002	
REL UNIT MULTIUNIT DEV	0			NEXT EQUIPMENT	00	
NUM UNIT MULTIUNIT DEV	1			ORIGINAL NUMBER UNITS	1	
USER NUM PRIVATE PACK	PUGL 013355 00000000000000	-A5		LOCAL STATUS	1	
DEVICE MASKS	460140			REF IN PROG/NULL EQ	DDLL 013366 0	A 3V
FLAGS AND DAT INDEX	MDGL 013356 1000	H A DI	C5	RESERVED	0	
FT-HT FLAG /* SECTOR LIMIT	0160			NUMBER PHYSICAL UNITS - 1	01	
DRIVER NAME	0411			EQUIPMENT UNIT LIST	00000000000003626	
0 RESERVED FOR PPR USE	0000			LOCAL INSTAL AREA	ISLL 013367 00000000000000000000	
SECTOR LIMIT	0340					
RESERVED	RIGL 013357 00000000000000000000					
GLOBAL INSTAL AREA	ISGL 013360 00000000000000000000					
	I2GL 013361 0000000000000000000000					
ACTIVITY COUNT	DALL 013362 0000	67				
UNIT INTERLOCKS	0000					
CURRENT POSITION	4142					
NEXT BEST POSITION	7777					
RESERVED	0000					

TRACK RESERVATION TABLE

013370 +0000	4001 4002 4003 4004 4017	1---	----	1111	5A5B5C5D50
013371 +0004	4005 4006 4007 4010 0017	----	----	1111	5E5F5G5H 0
013372 +0010	4011 4012 4013 4014 0017	----	----	1111	5I5J5K5L 0
013373 +0014	4015 4016 4017 4020 0017	----	----	1111	5M5N5O5P 0
013374 +0020	4021 4022 4023 4024 0017	----	----	1111	5Q5R5S5T 0
013375 +0024	4025 4026 4027 4030 0017	----	----	1111	5U5V5W5X 0
013376 +0030	4031 4032 4033 4034 0017	----	----	1111	5Y5Z5051 0
013377 +0034	4035 4036 4037 4040 0017	----	----	1111	52535455 0
013400 +0040	4041 0000 4146 0151 1417	--11	----	1111	56 6-A(LO
013401 +0044	0064 0064 0125 4050 7417	1111	----	1111	AU5/ 0
013402 +0050	4051 0106 4053 4054 1017	--1-	----	1111	5(AF515-HQ
013403 +0054	4055 4056 4057 4060 0017	----	----	1111	5 5,5,5 0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

DSDI - V2.0 79/10/30. 10.59.49. PAGE 2  
NDS 1-8J03T/R2B. NDS 1.4 STUDY DUMP - MASS STORAGE

013404	+0060	4061	4062	4063	4064	0017	----	----	1111	5 5 5 5 0
013405	+0064	4065	4066	4067	4070	0017	----	----	1111	5 5 5 5 0
013406	+0070	4071	4072	4073	4074	0017	----	----	1111	5 5 5 5 0
013407	+0074	4075	4076	4077	4100	0017	----	----	1111	5 5 5 6 0
013410	+0100	4101	4102	4103	4104	0017	----	----	1111	6A6B6C6D 0
013411	+0104	4105	4106	4107	4110	0017	----	----	1111	6E6F6G6H 0
013412	+0110	4112	3777	4113	4114	0017	----	----	1111	6J4 6K6L 0
013413	+0114	4115	4116	4117	4120	0017	----	----	1111	6M6N6O6P 0
013414	+0120	4121	4122	4123	4124	0017	----	----	1111	6Q6R6S6T 0
013415	+0124	0100	4126	0124	0147	2417	-1-1	----	1111	A 6VATA*TO
013416	+0130	0312	0017	0274	4134	7417	1111	----	1111	CJ 0B 61 0
013417	+0134	4135	4136	4137	0216	0017	----	----	1111	6263648N 0
013420	+0140	0243	3777	0046	0233	5417	1-11	----	1111	884 -80-0
013421	+0144	0001	0001	4150	0001	6417	11-1	----	1111	A A6/ A 0
013422	+0150	4251	4152	0031	0044	2417	-1-1	----	1111	7(6) Y 9TO
013423	+0154	0001	4156	4157	4160	6017	11--	----	1111	A6,6.6 0
013424	+0160	4161	4162	4163	4164	0017	----	----	1111	6 6 6 6 0
013425	+0164	4165	4166	4167	4170	0017	----	----	1111	6 6 6 6 0
013426	+0170	4171	4172	4173	4174	0017	----	----	1111	6 6 6 6 0
013427	+0174	0137	4176	0000	4200	2417	-1-1	----	1111	A46 7 TO
013430	+0200	4201	4202	4203	4204	0017	----	----	1111	7A7B7C7D 0
013431	+0204	4205	4206	4207	4210	0017	----	----	1111	7E7F7G7H 0
013432	+0210	4211	4212	4213	4214	0017	----	----	1111	7I7J7K7L 0
013433	+0214	4215	4216	0137	4220	0417	---1	----	1111	7M7NA47PDO
013434	+0220	4221	4222	4223	0007	0017	----	----	1111	7Q7R7S G 0
013435	+0224	4225	4226	4227	4230	4017	1---	----	1111	7U7V7W7X50
013436	+0230	0323	4232	4233	4234	2017	-1---	----	1111	CS7Z7071PO
013437	+0234	4235	4236	4237	4240	0017	----	----	1111	72737475 0
013440	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879 0
013441	+0244	4245	4246	4247	4250	0017	----	----	1111	7+7-7+7/ 0
013442	+0250	0137	4252	4253	4254	0017	----	----	1111	A471757- 0
013443	+0254	4255	4256	4257	4260	0017	----	----	1111	7 7,7.7 0
013444	+0260	4261	4262	4263	4264	0017	----	----	1111	7 7 7 7 0
013445	+0264	4265	4266	4274	0031	0417	---1	----	1111	7 7 7 YDO
013446	+0270	4271	0125	0073	0216	5417	1-11	----	1111	7 AU BN=0
013447	+0274	4275	4276	4277	4343	0017	----	----	1111	7 7 7 88 0
013450	+0300	0131	0022	0105	0200	7417	1111	----	1111	AY RAEB 0
013451	+0304	4305	4306	0267	4310	4417	1--1	----	1111	8E8F8 8H90
013452	+0310	4311	4312	4313	0247	0017	----	----	1111	8I8J8K8+ 0
013453	+0314	4315	4316	4317	4320	4017	1---	----	1111	8M8N8O8P50
013454	+0320	4321	4322	4323	4324	0017	----	----	1111	8Q8R8S8T 0
013455	+0324	4325	0024	4327	4330	1017	--1-	----	1111	8U 88W8XHO
013456	+0330	4331	4332	4333	4334	0017	----	----	1111	8Y8Z8081 0
013457	+0334	4335	4336	4337	0101	0017	----	----	1111	828384AA 0
013460	+0340	4341	4342	0213	4344	4017	1---	----	1111	86878K8950
013461	+0344	4400	4346	4347	4350	2017	-1---	----	1111	9 8-8+8/PO
013462	+0350	0014	0203	0316	0012	3417	-111	----	1111	LBCCN J10
013463	+0354	0133	4356	4357	4360	6017	11--	----	1111	A08,8.8 0
013464	+0360	4361	4362	4363	4364	0017	----	----	1111	8 8 8 8 0
013465	+0364	4365	4366	4367	4370	0017	----	----	1111	8 8 8 8 0
013466	+0370	0022	0054	4373	4374	3017	-11-	----	1111	R -8 8 XO
013467	+0374	4375	4376	0245	0035	0417	---1	----	1111	8 8 8+ 200
013470	+0400	4410	0036	4403	4404	3017	-11-	----	1111	9H 39C9DX0
013471	+0404	4405	4406	4407	0313	0017	----	----	1111	9E9F9GCK 0
013472	+0410	4411	5033	0001	4414	1417	--11	----	1111	9I/O A9LLO
013473	+0414	0262	0173	0311	0133	3417	-111	----	1111	8 A CIA010
013474	+0420	0146	0146	4423	4424	7017	111-	----	1111	A-A-9S9T 0

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NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

013475 +0424 4425 4426 0006 0234 0417 ----1 ---- 1111 9U9V FB100  
013476 +0430 0073 0235 0005 0145 7417 1111 ---- 1111 B2 EA+ 0  
013477 +0434 0134 0152 0307 0300 7417 1111 ---- 1111 A1A)CGC 0  
013500 +0440 4605 0104 0072 0004 7417 1111 ---- 1111 -EAD D 0  
013501 +0444 0161 0052 0154 0026 7417 1111 ---- 1111 A JA= V 0  
013502 +0450 0241 0142 4453 0154 7017 111- ---- 1111 B6A79SA= 0  
013503 +0454 0235 0312 0002 0064 7417 1111 ---- 1111 B2CJ B 0  
013504 +0460 4461 4462 4463 4464 4017 1--- ---- 1111 9 9 9 9 50  
013505 +0464 0152 0312 0136 4470 3417 -111 ---- 1111 A)CJA39 10  
013506 +0470 4471 4472 4473 4474 0017 ---- ---- 1111 9 9 9 9 0  
013507 +0474 4475 4476 4477 4500 0017 ---- ---- 1111 9 9 9 + 0  
013510 +0500 0010 4502 4503 4504 2017 -1-- ---- 1111 H+B+C+DPO  
013511 +0504 4505 4506 4507 4510 0017 ---- ---- 1111 +E+F+G+H 0  
013512 +0510 4511 4512 4513 4514 0017 ---- ---- 1111 +I+J+K+L 0  
013513 +0514 4515 4516 4517 4520 0017 ---- ---- 1111 +M+N+O+P 0  
013514 +0520 4521 4522 4523 4524 0017 ---- ---- 1111 +Q+R+S+T 0  
013515 +0524 4525 4526 4527 4530 0017 ---- ---- 1111 +U+V+W+X 0  
013516 +0530 4531 4532 4533 4534 0017 ---- ---- 1111 +Y+Z+0+1 0  
013517 +0534 4535 4536 4537 4540 0017 ---- ---- 1111 +2+3+4+5 0  
013520 +0540 4541 4542 4543 4544 0017 ---- ---- 1111 +6+7+8+9 0  
013521 +0544 4545 4546 4547 4550 0017 ---- ---- 1111 ++-+++/ 0  
013522 +0550 4551 4552 4553 4554 0017 ---- ---- 1111 +(+)+++= 0  
013523 +0554 4555 4556 4557 4560 0017 ---- ---- 1111 + +,+,+ 0  
013524 +0560 4561 4562 4563 4564 0017 ---- ---- 1111 + + + + 0  
013525 +0564 4565 4566 4567 4570 0017 ---- ---- 1111 + + + + 0  
013526 +0570 4571 4572 4573 4574 0017 ---- ---- 1111 + + + + 0  
013527 +0574 4575 4576 4577 4600 0017 ---- ---- 1111 + + + - 0  
013530 +0600 4601 0043 6641 0213 1417 --11 ---- 1111 -A 8 6BKLO  
013531 +0604 0034 4606 4607 4610 0017 ---- ---- 1111 1-F-G-H 0  
013532 +0610 4611 4612 4613 4614 0017 ---- ---- 1111 -I-J-K-L 0  
013533 +0614 6175 6636 0305 0054 1417 --11 ---- 1111 3CE =LO  
013534 +0620 0027 0066 0141 0123 7417 1111 ---- 1111 W A6AS 0  
013535 +0624 0064 4626 4627 0022 6017 11-- ---- 1111 -V-W R 0  
013536 +0630 0142 0032 0146 4634 7417 1111 ---- 1111 A7 ZA--1 0  
013537 +0634 4635 4636 4637 4640 0017 ---- ---- 1111 -2-3-4-5 0  
013540 +0640 4641 0236 4643 4644 1017 --1- ---- 1111 -6B3-8-9HU  
013541 +0644 0153 4646 4647 4650 2017 -1-- ---- 1111 A8---\*-PU  
013542 +0650 0135 4652 4654 3777 2017 -1-- ---- 1111 A2-)-=4 PO  
013543 +0654 4655 4656 4657 4660 0017 ---- ---- 1111 - -,-- 0  
013544 +0660 4661 4662 4663 4664 0017 ---- ---- 1111 - - - - 0  
013545 +0664 4665 4666 4667 4670 0017 ---- ---- 1111 - - - - 0  
013546 +0670 4671 4672 4673 4674 0017 ---- ---- 1111 - - - - 0  
013547 +0674 4675 4676 4677 4700 0017 ---- ---- 1111 - - - \* 0  
013550 +0700 4701 4702 4703 4704 0017 ---- ---- 1111 \*A\*B\*C\*D 0  
013551 +0704 4705 4706 4707 4710 0017 ---- ---- 1111 \*E\*F\*G\*H 0  
013552 +0710 4711 4712 4713 4714 0017 ---- ---- 1111 \*I\*J\*K\*L 0  
013553 +0714 4715 4716 4717 4720 0017 ---- ---- 1111 \*M\*N\*O\*P 0  
013554 +0720 4721 4722 4723 4724 0017 ---- ---- 1111 \*Q\*R\*S\*T 0  
013555 +0724 4725 4726 4727 4730 0017 ---- ---- 1111 \*U\*V\*W\*X 0  
013556 +0730 4731 4732 4733 4734 0017 ---- ---- 1111 \*Y\*Z\*0\*1 0  
013557 +0734 4735 4736 4737 4740 0017 ---- ---- 1111 \*2\*3\*4\*5 0  
013560 +0740 4741 4742 4743 4744 0017 ---- ---- 1111 \*6\*7\*8\*9 0  
013561 +0744 4745 4746 4747 4750 0017 ---- ---- 1111 \*+-\*\*\*/ 0  
013562 +0750 4751 4752 4753 4754 0017 ---- ---- 1111 \*(\*)+\*+= 0  
013563 +0754 4755 4756 4757 4760 0017 ---- ---- 1111 \* \*,\*,\* 0  
013564 +0760 4761 4762 4763 4764 0017 ---- ---- 1111 \* \* \* \* 0  
013565 +0764 4765 4766 4767 4770 0017 ---- ---- 1111 \* \* \* \* 0

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013566	+0770	4771	4772	4773	4774	0017	----	----	1111	* * * * 0
013567	+0774	4775	4776	4777	5000	0017	----	----	1111	* * * / 0
013570	+1000	5001	5002	5003	5004	0017	----	----	1111	/A/B/C/D 0
013571	+1004	5005	5006	5007	5010	0017	----	----	1111	/E/F/G/H 0
013572	+1010	5011	5012	5013	5014	0017	----	----	1111	/I/J/K/L 0
013573	+1014	5015	5016	5017	5020	0017	----	----	1111	/M/N/O/P 0
013574	+1020	5021	5022	5023	5024	0017	----	----	1111	/Q/R/S/T 0
013575	+1024	5025	0101	0227	0045	1417	--11	----	1111	/UAAW +LO
013576	+1030	5031	5032	0005	5161	4017	1----	----	1111	/Y/Z E( 50
013577	+1034	0063	5036	5037	5040	6017	11--	----	1111	/3/4/5 0
013600	+1040	5041	5042	0055	5044	0417	---1	----	1111	/6/7 /900
013601	+1044	5045	5046	5047	5050	0017	----	----	1111	/+/-/*// 0
013602	+1050	5051	5052	5053	5054	0017	----	----	1111	/(/)/!/ = 0
013603	+1054	0154	5056	5057	5060	2017	-1--	----	1111	A=/,./ / PO
013604	+1060	5061	5062	5063	0132	0017	----	----	1111	/ / / AZ 0
013605	+1064	5065	5066	5067	5070	4017	1----	----	1111	/ / / / 50
013606	+1070	5071	5072	0322	0226	0417	---1	----	1111	/ / CRBV00
013607	+1074	5075	0022	5077	5100	5017	1-1-	----	1111	/ R/ ( /0
013610	+1100	5101	5102	5103	5104	0017	----	----	1111	(A(B(C(D 0
013611	+1104	0017	5106	5107	5110	2017	-1--	----	1111	O(F(G(H(P 0
013612	+1110	5111	5112	0326	0011	0417	---1	----	1111	(I(JCV ID 0
013613	+1114	0036	0006	5117	0150	7017	111-	----	1111	3 F(QA/ 0
013614	+1120	5121	5122	5123	5124	4017	1----	----	1111	(Q(R(S(T50
013615	+1124	5125	0053	5127	5130	1017	--1-	----	1111	(U \$(W(XH0
013616	+1130	5131	5132	5133	5134	0017	----	----	1111	(Y(Z(0(1 0
013617	+1134	5135	5136	5137	5140	0017	----	----	1111	(2(3(4(5 0
013620	+1140	5141	5142	5143	5144	0017	----	----	1111	(6(7(8(9 0
013621	+1144	5145	5146	5147	5150	0017	----	----	1111	(+(-(*(/ 0
013622	+1150	5151	5152	5153	5154	0017	----	----	1111	((()()(- 0
013623	+1154	5155	5156	5157	5160	0017	----	----	1111	( (,(,( 0
013624	+1160	0201	5236	0023	0043	1417	--11	----	1111	BA)3 S 8LO
013625	+1164	0054	0024	0073	0036	7417	1111	----	1111	= T 3 0
013626	+1170	5171	0001	0003	0007	5417	1-11	----	1111	( A C G=0
013627	+1174	0014	5176	0237	0201	6417	11-1	----	1111	L( B4BA 0
013630	+1200	0002	5202	0270	0066	6417	11-1	----	1111	B)BB 0
013631	+1204	0143	5206	5207	5210	6017	11--	----	1111	A8)F)G)H 0
013632	+1210	5211	5212	0324	5214	0417	---1	----	1111	)I)JCT)LD0
013633	+1214	5215	5216	5217	0031	0017	----	----	1111	)M)N)O Y 0
013634	+1220	5222	3777	5223	5224	4017	1----	----	1111	JR4 )S)T50
013635	+1224	5225	5226	0316	5230	0417	---1	----	1111	)U)V(CN)X00
013636	+1230	0107	0244	0317	0022	3417	-111	----	1111	AG89CD RLO
013637	+1234	5235	0230	5552	5240	4417	1--1	----	1111	)2BX )1590
013640	+1240	5241	5242	5243	5244	0017	----	----	1111	)6)7)8)9 0
013641	+1244	5245	5246	0251	5250	0417	---1	----	1111	)+-B() /00
013642	+1250	5251	5252	5253	0070	0017	----	----	1111	)()()) 0
013643	+1254	5255	0203	5257	5260	5017	1-1-	----	1111	) BC). ) /0
013644	+1260	0203	5262	5263	5264	2017	-1--	----	1111	8C) ) ) PQ
013645	+1264	5265	5266	5267	0044	0017	----	----	1111	) ) ) 9 0
013646	+1270	0026	5272	5273	5274	6017	11--	----	1111	V) ) ) 0
013647	+1274	0021	5276	5277	5300	2017	-1--	----	1111	Q) ) ) PQ
013650	+1300	0022	5302	5303	5304	2017	-1--	----	1111	R)B)C)D)P0
013651	+1304	0262	5306	5307	5310	2017	-1--	----	1111	B )F)G)H)P0
013652	+1310	0022	5312	5313	5314	2017	-1--	----	1111	R)J)K)L)P0
013653	+1314	0262	5316	5317	5320	2017	-1--	----	1111	B )N)O)P)P0
013654	+1320	5321	5322	5323	5324	0017	----	----	1111	\$Q)R)S)T 0
013655	+1324	5325	5326	5327	5330	0017	----	----	1111	\$U)V)W)X 0
013656	+1330	5331	5332	5333	5334	0017	----	----	1111	\$Y)Z)0)1 0

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

013657 +1334 5335 5336 5337 5340 0017 ---- ---- 1111 \$2\$3\$4\$5 0  
013660 +1340 5341 5342 5343 5344 0017 ---- ---- 1111 \$6\$7\$8\$9 0  
013661 +1344 5345 5346 5347 5350 0017 ---- ---- 1111 \$+\$-\$+\$-\$ 0  
013662 +1350 5351 5352 5353 5354 0017 ---- ---- 1111 \$(\$)\$\$\$=\$ 0  
013663 +1354 5355 5356 5357 5360 0017 ---- ---- 1111 \$ \$, \$, \$ 0  
013664 +1360 5361 5362 5363 0030 0017 ---- ---- 1111 \$ \$ \$ X 0  
013665 +1364 0051 5366 0014 5370 6417 11-1 ---- 1111 (\$ L\$ 0  
013666 +1370 5371 5372 5373 5374 0017 ---- ---- 1111 \$ \$ \$ \$ 0  
013667 +1374 5375 5376 5377 5400 0017 ---- ---- 1111 \$ \$ \$ = 0  
013670 +1400 5401 5402 5403 5404 0017 ---- ---- 1111 =A=B=C=D 0  
013671 +1404 5405 5406 5407 5410 0017 ---- ---- 1111 =E=F=G=H 0  
013672 +1410 5411 5412 5413 5414 0017 ---- ---- 1111 =I=J=K=L 0  
013673 +1414 5415 5416 5417 5420 0017 ---- ---- 1111 =M=N=O=P 0  
013674 +1420 5421 5422 5423 5424 0017 ---- ---- 1111 =Q=R=S=T 0  
013675 +1424 5425 5426 5427 5430 0017 ---- ---- 1111 =U=V=W=X 0  
013676 +1430 5431 5432 5433 5434 0017 ---- ---- 1111 =Y=Z=0=1 0  
013677 +1434 5435 5437 3777 5440 0017 ---- ---- 1111 =2=44 =5 0  
013700 +1440 5441 5442 5443 5444 0017 ---- ---- 1111 =6=7=8=9 0  
013701 +1444 5445 5446 5447 5450 0017 ---- ---- 1111 =+-=-+=/ 0  
013702 +1450 5451 5452 5453 5454 0017 ---- ---- 1111 =(-)=\$= 0  
013703 +1454 5455 5456 5457 5460 0017 ---- ---- 1111 = , , = 0  
013704 +1460 5461 5462 5463 5464 0017 ---- ---- 1111 = = = = 0  
013705 +1464 5465 5466 5467 5470 0017 ---- ---- 1111 = = = = 0  
013706 +1470 5471 5472 5473 5474 0017 ---- ---- 1111 = = = = 0  
013707 +1474 5475 5476 5477 5500 0017 ---- ---- 1111 = = = = 0  
013710 +1500 5501 5502 5503 5504 0017 ---- ---- 1111 A B C D 0  
013711 +1504 5505 5506 5507 5510 0017 ---- ---- 1111 E F G H 0  
013712 +1510 5511 5512 5513 5514 0017 ---- ---- 1111 I J K L 0  
013713 +1514 5515 5516 5517 5520 0017 ---- ---- 1111 M N O P 0  
013714 +1520 5521 5522 5523 5524 0017 ---- ---- 1111 Q R S T 0  
013715 +1524 5525 5526 5527 5530 0017 ---- ---- 1111 U V W X 0  
013716 +1530 5531 5532 5533 5534 0017 ---- ---- 1111 Y Z 0 1 0  
013717 +1534 5535 5536 5537 5540 0017 ---- ---- 1111 2 3 4 5 0  
013720 +1540 5541 5542 5543 5544 0017 ---- ---- 1111 6 7 8 9 0  
013721 +1544 5545 5546 5547 5550 0017 ---- ---- 1111 + - \* / 0  
013722 +1550 5551 0031 5553 5554 0017 ---- ---- 1111 ( Y \$ = 0  
013723 +1554 5555 5556 5557 5563 0017 ---- ---- 1111 , . 0  
013724 +1560 5561 5562 0100 5567 4017 1---- ---- 1111 A 50  
013725 +1564 0027 0026 0110 5570 7017 111- ---- 1111 W VAH 0  
013726 +1570 5665 5572 5573 5574 2017 -1-- ---- 1111 , PO  
013727 +1574 5575 5576 5577 5600 0017 ---- ---- 1111 , 0  
013730 +1600 5601 5602 5603 5604 0017 ---- ---- 1111 ,A,B,C,D 0  
013731 +1604 5605 5606 5607 5610 0017 ---- ---- 1111 ,E,F,G,H 0  
013732 +1610 5611 5612 5613 5614 0017 ---- ---- 1111 ,I,J,K,L 0  
013733 +1614 5615 5616 5617 5620 0017 ---- ---- 1111 ,M,N,O,P 0  
013734 +1620 5621 5622 5623 5624 0017 ---- ---- 1111 ,Q,R,S,T 0  
013735 +1624 5625 0220 5627 5630 1017 --1- ---- 1111 ,UBP,W,XHO  
013736 +1630 5631 5632 5633 5634 0017 ---- ---- 1111 ,Y,Z,0,1 0  
013737 +1634 5635 5636 5637 5640 0017 ---- ---- 1111 ,2,3,4,5 0  
013740 +1640 5641 5642 5643 5644 0017 ---- ---- 1111 ,6,7,8,9 0  
013741 +1644 5645 5646 5647 5650 0017 ---- ---- 1111 ,+,-,\*,/ 0  
013742 +1650 5651 5652 5653 5654 0017 ---- ---- 1111 ,(,),\$,= 0  
013743 +1654 5655 5656 5657 5660 0017 ---- ---- 1111 , , , , , 0  
013744 +1660 5661 5662 0220 0111 0417 ----1 ---- 1111 , , BPAIDO  
013745 +1664 0252 5702 5667 5670 5017 1-1- ---- 1111 B).B, , /O  
013746 +1670 5671 5672 0023 5674 0417 ---1 ---- 1111 , , S, DO  
013747 +1674 0241 0155 5677 5700 3017 -11- ---- 1111 B6A , . XO

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013750	+1700	5701	0101	5711	0003	0417	---	1	----	1111	.AAA.I CDO
013751	+1704	0122	0227	0071	0117	7417	1111	----	1111	ARBW AO 0	
013752	+1710	0002	6067	5713	5714	5017	1-1-	----	1111	B .K.L/O	
013753	+1714	5715	5716	5717	5720	0017	----	----	1111	.M.N.O.P 0	
013754	+1720	5721	5722	5723	5724	0017	----	----	1111	.Q.R.S.T 0	
013755	+1724	5725	5726	5727	5730	0017	----	----	1111	.U.V.W.X 0	
013756	+1730	5731	5733	3777	5734	0017	----	----	1111	.Y.O4 .1 0	
013757	+1734	5735	5736	5737	6746	0017	----	----	1111	.2.3.4 - 0	
013760	+1740	5741	5742	5743	5744	4017	1---	----	1111	.6.7.8.950	
013761	+1744	5745	5747	3777	5750	0017	----	----	1111	.+.+. / 0	
013762	+1750	5751	5753	3777	5754	0017	----	----	1111	.1.64 . = 0	
013763	+1754	0243	0160	0101	0201	3417	-111	----	1111	88A AABA10	
013764	+1760	5761	0312	5763	5764	5017	1-1-	----	1111	. C.J. . /0	
013765	+1764	5765	5766	5767	5770	0017	----	----	1111	. . . . 0	
013766	+1770	5771	5772	5773	5774	0017	----	----	1111	. . . . 0	
013767	+1774	5775	5776	5777	6000	0017	----	----	1111	. . . . 0	
013770	+2000	6001	6002	6003	6004	0017	----	----	1111	A B C D 0	
013771	+2004	6005	6006	6007	6010	0017	----	----	1111	E F G H 0	
013772	+2010	6011	6012	6013	6014	0017	----	----	1111	I J K L 0	
013773	+2014	6015	6016	6017	6020	0017	----	----	1111	M N O P 0	
013774	+2020	6021	6022	6023	6024	0017	----	----	1111	Q R S T 0	
013775	+2024	6025	6026	0230	6030	0417	----	1	----	1111	U VBX XDO
013776	+2030	6031	6032	6033	6034	0017	----	----	1111	Y Z 0 1 0	
013777	+2034	6035	6036	6037	6040	0017	----	----	1111	2 3 4 5 0	
014000	+2040	6041	6042	6043	6044	0017	----	----	1111	6 7 8 9 0	
014001	+2044	6045	6046	6047	6050	0017	----	----	1111	+ - * / 0	
014002	+2050	6051	6052	6053	6054	0017	----	----	1111	( ) \$ = 0	
014003	+2054	6055	6056	6057	6060	0017	----	----	1111	. . . 0	
014004	+2060	6061	6062	6063	6064	0017	----	----	1111	. . . 0	
014005	+2064	0035	0210	0152	6156	3017	-11-	----	1111	28HA) ,X0	
014006	+2070	6071	6072	6073	6074	4017	1---	----	1111	50	
014007	+2074	6075	6076	6077	6100	0017	----	----	1111	0	
014010	+2100	6101	6102	6103	6104	0017	----	----	1111	A B C D 0	
014011	+2104	6105	6106	6107	0170	0017	----	----	1111	E F GA 0	
014012	+2110	0005	0004	6113	0271	7017	111-	----	1111	E D KB 0	
014013	+2114	0012	0021	0014	0113	7417	1111	----	1111	J Q LAK 0	
014014	+2120	0005	0004	6123	0030	7017	111-	----	1111	E D S X 0	
014015	+2124	0252	6126	6127	6130	6017	11--	----	1111	8) V W X 0	
014016	+2130	6131	6132	0057	0336	0417	----	1	----	1111	Y Z .C300
014017	+2134	0333	6136	6137	0307	6017	11--	----	1111	CO 3 4CG 0	
014020	+2140	0040	0062	0272	0270	7417	1111	----	1111	5 B B 0	
014021	+2144	0061	6146	0032	0232	6417	11-1	----	1111	- 28Z 0	
014022	+2150	0232	0061	0255	0062	7417	1111	----	1111	8Z B 0	
014023	+2154	0261	0253	6157	6213	6017	11--	----	1111	B 8\$ . K 0	
014024	+2160	0030	6162	0241	0243	6417	11-1	----	1111	X 8688 0	
014025	+2164	6165	6166	6167	6170	4017	1---	----	1111	50	
014026	+2170	0243	6172	6173	0010	2017	-1--	----	1111	88 HPU	
014027	+2174	4604	6576	6177	0245	5017	1-1-	----	1111	-0 B+/0	
014030	+2200	6201	0256	6203	0141	5017	1-1-	----	1111	AB, CA6/O	
014031	+2204	6205	0257	6207	0137	5017	1-1-	----	1111	EB. GA4/O	
014032	+2210	0063	6212	0067	6214	6017	11--	----	1111	J L 0	
014033	+2214	6230	6216	0206	6220	2417	-1-1	----	1111	X NBF PTO	
014034	+2220	0261	0026	0001	0046	3417	-111	----	1111	B V A -10	
014035	+2224	6225	0257	0104	0112	5417	1-11	----	1111	UB.ADAJ-0	
014036	+2230	6231	6241	6233	0131	1017	--1-	----	1111	Y 6 OAYHO	
014037	+2234	0142	3777	0200	0147	5417	1-11	----	1111	A74 B A*-0	
014040	+2240	0146	6242	6243	6557	4017	1---	----	1111	A- 7 8 .50	

RA = MST,6,7,11,12,13,14.  
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014041	+2244	6245	6246	6247	6250	4017	1---	----	1111	+ - * /50
014042	+2250	6251	6252	6253	6254	0017	----	----	1111	( ) \$ = 0
014043	+2254	6255	6256	6257	6260	0017	----	----	1111	, . 0
014044	+2260	6261	6262	6263	6264	0017	----	----	1111	0
014045	+2264	6265	6266	6267	6270	0017	----	----	1111	0
014046	+2270	6272	3777	6273	6274	0017	----	----	1111	4 0
014047	+2274	6275	6276	6277	6300	0017	----	----	1111	0
014050	+2300	6301	6302	6303	6304	0017	----	----	1111	A B C D 0
014051	+2304	6305	6306	6307	6310	0017	----	----	1111	E F G H 0
014052	+2310	6311	6312	6313	6314	0017	----	----	1111	I J K L 0
014053	+2314	6315	6316	6317	6320	0017	----	----	1111	M N O P 0
014054	+2320	6321	6322	6323	6324	0017	----	----	1111	Q R S T 0
014055	+2324	6325	6326	6327	6330	0017	----	----	1111	U V W X 0
014056	+2330	6331	6332	6333	6334	0017	----	----	1111	Y Z 0 1 0
014057	+2334	6335	6336	6337	6340	0017	----	----	1111	2 3 4 5 0
014060	+2340	6341	6342	6343	6344	0017	----	----	1111	6 7 8 9 0
014061	+2344	6345	6346	6347	6350	0017	----	----	1111	+ - * / 0
014062	+2350	6351	6352	6353	6354	0017	----	----	1111	( ) \$ = 0
014063	+2354	6355	6356	6357	6360	0017	----	----	1111	, . 0
014064	+2360	6361	6362	6363	6364	0017	----	----	1111	0
014065	+2364	6365	6366	6367	6370	0017	----	----	1111	0
014066	+2370	6371	6372	6373	6374	0017	----	----	1111	0
014067	+2374	6375	6376	6377	6400	0017	----	----	1111	0
014070	+2400	6401	6402	6403	6404	0017	----	----	1111	A B C D 0
014071	+2404	6405	6406	6407	6410	0017	----	----	1111	E F G H 0
014072	+2410	6411	6412	6413	6414	0017	----	----	1111	I J K L 0
014073	+2414	6415	6416	6417	6420	0017	----	----	1111	M N O P 0
014074	+2420	6421	6422	6423	6424	0017	----	----	1111	Q R S T 0
014075	+2424	6425	6426	6427	6430	0017	----	----	1111	U V W X 0
014076	+2430	6431	6432	6433	6434	0017	----	----	1111	Y Z 0 1 0
014077	+2434	6435	6436	6437	6440	0017	----	----	1111	2 3 4 5 0
014100	+2440	6441	6442	6443	6444	0017	----	----	1111	6 7 8 9 0
014101	+2444	6445	6446	6447	6450	0017	----	----	1111	+ - * / 0
014102	+2450	6451	6452	6453	6454	0017	----	----	1111	( ) \$ = 0
014103	+2454	6455	6456	6457	6460	0017	----	----	1111	, . 0
014104	+2460	6461	6462	6463	6464	0017	----	----	1111	0
014105	+2464	6465	6466	6467	6470	0017	----	----	1111	0
014106	+2470	6471	6472	6473	6474	0017	----	----	1111	0
014107	+2474	6475	6476	6477	6500	0017	----	----	1111	0
014110	+2500	6501	6502	6503	6504	0017	----	----	1111	A B C D 0
014111	+2504	6505	6506	6507	6510	0017	----	----	1111	E F G H 0
014112	+2510	6511	6512	6513	6514	0017	----	----	1111	I J K L 0
014113	+2514	6515	0000	6517	0153	1017	--1-	----	1111	M 0ASH0
014114	+2520	0074	0003	0065	0030	7417	1111	----	1111	C X 0
014115	+2524	0004	6526	0113	0157	6417	11-1	----	1111	D VAKA. 0
014116	+2530	0103	3777	6533	6534	5017	1-1-	----	1111	AC4 0 1/0
014117	+2534	6535	6536	0172	6540	0417	---1	----	1111	2 3A 500
014120	+2540	0074	0213	0044	0122	3417	-111	----	1111	BK 9AR10
014121	+2544	0066	6546	0267	6550	6417	11-1	----	1111	-B / 0
014122	+2550	0237	6552	6553	0137	2017	-1--	----	1111	B4 ) \$A4PO
014123	+2554	0236	6556	0040	4615	6017	11--	----	1111	B3 , 5-M 0
014124	+2560	6561	6562	6563	6564	4017	1----	----	1111	50
014125	+2564	6565	6566	6567	6570	0017	----	----	1111	0
014126	+2570	0172	0235	0213	0232	3417	-111	----	1111	A B2BKAZ10
014127	+2574	0126	0052	6602	0031	6417	11-1	----	1111	AV ) B Y 0
014130	+2600	6601	0071	0046	0031	4417	1--1	----	1111	A - Y90
014131	+2604	0273	6606	6607	6610	6017	11--	----	1111	B F G H 0

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014132 +2610	6611	6612	6613	6614	0017	----	----	1111	I J K L O
014133 +2614	6615	6616	6617	6620	0017	----	----	1111	M N O P O
014134 +2620	0046	6622	6623	6624	2017	-1--	----	1111	- R S TPO
014135 +2624	6625	6626	6627	6630	0017	----	----	1111	U V W X O
014136 +2630	6631	6632	6633	6634	0017	----	----	1111	Y Z O 1 O
014137 +2634	6635	0074	0265	0007	0417	----	1	1111	2 8 G00
014140 +2640	0020	6642	6643	6644	4017	1----	----	1111	P 7 8 950
014141 +2644	6645	6646	6647	6650	0017	----	----	1111	+ - + / O
014142 +2650	6653	3777	3777	6654	0017	----	----	1111	\$4 4 = O
014143 +2654	6655	6656	6657	6660	0017	----	----	1111	, . O
014144 +2660	6661	6662	6663	6664	0017	----	----	1111	O
014145 +2664	6665	6666	6667	6670	0017	----	----	1111	O
014146 +2670	6671	6672	6673	6674	0017	----	----	1111	O
014147 +2674	6675	6676	6677	6700	0017	----	----	1111	O
014150 +2700	6701	6702	6703	6704	0017	----	----	1111	A B C D O
014151 +2704	6705	6706	6707	6710	0017	----	----	1111	E F G H O
014152 +2710	6711	6712	6713	6714	0017	----	----	1111	I J K L O
014153 +2714	6715	6716	6717	6720	0017	----	----	1111	M N O P O
014154 +2720	6721	6722	6723	6724	0017	----	----	1111	Q R S T O
014155 +2724	6725	6726	6727	6730	0017	----	----	1111	U V W X O
014156 +2730	6731	6732	6733	6734	0017	----	----	1111	Y Z O 1 O
014157 +2734	6735	6736	6737	6740	0017	----	----	1111	2 3 4 5 O
014160 +2740	6741	6742	0320	0110	0417	----	1	1111	6 7CPAHDO
014161 +2744	6747	6751	0003	6750	6017	11--	----	1111	* I C / O
014162 +2750	0231	0277	0000	0000	0014	----	----	11--	BYB L
014163 +2754	0000	0000	0000	0000	0000	----	----	----	

014204 +3060	0000	3777	0000	0000	0004	----	----	-1--	4	D
014205 +3064	0000	0000	0000	0000	0000	----	----	----		

014210 +3100	0000	0000	3777	0000	0002	----	----	--1-	4	B
014211 +3104	0000	0000	0000	0000	0000	----	----	----		

014217 +3134	0000	3777	0000	0000	0004	----	----	-1--	4	D
--------------	------	------	------	------	------	------	------	------	---	---

EQUIPMENT 07 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 014220 3140	Y5	FX5+
RESERVED	0000		
LENGTH OF TRT	0630		
FIRST AVAIL TRACK PTR	4045		
NUM AVAILABLE TRACKS	0067		
FLAGS / INTERLOCK	ACGL 014221 0000	F,	A
DA ECS CHAIN FIRST TRACK	0000		
DIRECT ACCESS FILE CNT	0656		
FIRST TRACK IOFT	0000		
REDEFINITION STATUSES	01		
PF UTILITY INTERLOCK	00		
ECS ADDRESS MST/TRT	SDGL 014222 00000000		
ECS UPDATE COUNT	0000000000		
MACHINE MASK INTERLOCK	00		
FIRST TRACK IAPF	ALGL 014223 4042	575	58 5
LABEL TRACK	4000		
FIRST TRACK PERMITS	4043		
NUMBER CATALOG TRACKS	0040		
FIRST TRACK DAT	0000		
FAMILY OR PACK NAME	PFGL 014224 16172303142310	NUSCLSH6	B

ALLOCATION FLAGS	DILL 014233 0000	TR	A
CH 2 ACCESS 7154 FLAG	24		
CH 1 ACCESS 7154 FLAG	22		
CH 4 ACCESS 7154 FLAG	00		
CH 3 ACCESS 7154 FLAG	00		
BIT 21 IS MAINTENANCE MODE	0		
MEMORY TYPE - 3 BIT VALUE	0		
CPU TYPE - 3 BIT VALUE	0		
PP PATH TYPE - 3 BIT VALUE	0		
RESERVED	00		
ALGORITHM INDEX	01		
DAYFILE TRACK			
ACCOUNT FILE TRACK	DULL 014234 0000		
ERRLOG TRACK	0000		
SYSTEM TABLE TRACK	0000		
FAMILY IDLE STATUS	0000		
FAMILY ACTIVITY COUNT	0		
LOCAL STATUS FLAGS	000		
RESERVED	00		
ERROR STATUS	00		

D 62 B Q

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DEVICE NUMBER	41	MACHINE ID	4135
RESERVED	00	CURRENT USER COUNT DAF	0002
REL UNIT MULTIUNIT DEV	0	NEXT EQUIPMENT	00
NUM UNIT MULTIUNIT DEV	2	ORIGINAL NUMBER UNITS	2
USER NUM PRIVATE PACK	PUGL 014225 0000000000000000	LOCAL STATUS	1
DEVICE MASKS	404010	REDEF IN PROG/NULL EQ	DDL 014236 0
FLAGS AND DAT INDEX	MDGL 014226 1000	RESERVED	0
FT-HT FLAG */* SECTOR LIMIT	4153	NUMBER PHYSICAL UNITS - 1	02
DRIVER NAME	0411	EQUIPMENT UNIT LIST	00000000000443424
0 RESERVED FOR PPR USE	0000	LOCAL INSTAL AREA	ISLL 014237 00000000000000000000
SECTOR LIMIT	0501		
RESERVED	R1GL 014227 0000000000000000000000		
GLOBAL INSTAL AREA	ISGL 014230 0000000000000000000000		
	I2GL 014231 0000000000000000000000		
ACTIVITY COUNT	DALL 014232 0001		
UNIT INTERLOCKS	1000		
CURRENT POSITION	6137		
NEXT BEST POSITION	7777		
RESERVED	0000		

TRACK RESERVATION TABLE

014240 +0000	4001 4002 4003 4004 4017	1---	1111	5A5B5C5D50
014241 +0004	4005 4006 4007 4010 0017	----	1111	5E5F5G5H 0
014242 +0010	4011 4012 4013 4014 0017	----	1111	5I5J5K5L 0
014243 +0014	4015 4016 4017 4020 0017	----	1111	5M5N5O5P 0
014244 +0020	4021 4022 4023 4024 0017	----	1111	5Q5R5S5T 0
014245 +0024	4025 4026 4027 4030 0017	----	1111	5U5V5W5X 0
014246 +0030	4031 4032 4033 4034 0017	----	1111	5Y5Z5051 0
014247 +0034	4035 4036 4037 4040 0017	----	1111	52535455 0
014250 +0040	4041 0000 4350 0231 1417	--11	1111	56 8/BYLO
014251 +0044	0452 0054 0454 4050 7417	1111	1111	01 =D=5/ 0
014252 +0050	4051 4052 0413 0102 0417	---1	1111	5(5)DKABD0
014253 +0054	4055 4056 4057 4316 4017	1---	1111	5 5,5.8N50
014254 +0060	4230 0373 0144 4064 3417	-111	1111	7XC A95 10
014255 +0064	4065 4066 4067 4070 0017	----	1111	5 5 5 5 0
014256 +0070	4071 4072 4073 4074 0017	----	1111	5 5 5 5 0
014257 +0074	4075 4076 4077 4100 0017	----	1111	5 5 5 6 0
014260 +0100	4101 4102 4103 4104 0017	----	1111	6A6B6C6D 0
014261 +0104	4105 4106 4107 4110 0017	----	1111	6E6F6G6H 0
014262 +0110	4111 4112 4113 4114 0017	----	1111	6I6J6K6L 0
014263 +0114	4115 4116 4117 4120 0017	----	1111	6M6N6O6P 0
014264 +0120	4121 4122 4123 4124 0017	----	1111	6Q6R6S6T 0
014265 +0124	4125 4126 4127 4130 0017	----	1111	6U6V6W6X 0
014266 +0130	4131 4132 4133 4134 0017	----	1111	6Y6Z6061 0
014267 +0134	4135 4136 4137 4140 0017	----	1111	62636465 0
014270 +0140	4141 4142 4143 4144 0017	----	1111	66676869 0
014271 +0144	4145 4146 0021 4150 0017	----	1111	6+6- Q6/ 0
014272 +0150	4314 4060 4154 4152 2417	-1-1	1111	8L5 6=6)TO
014273 +0154	4155 0146 0142 0030 1417	--11	1111	6 A-A7 XLO
014274 +0160	0160 0013 0021 0013 3417	-111	1111	A K Q KLO
014275 +0164	0022 4172 0013 0022 5417	1-11	1111	R6 K R=0
014276 +0170	0141 0412 4173 4175 6017	11--	1111	A6DJ6 6 0
014277 +0174	0142 4176 4177 4200 4017	1---	1111	A76 6 7 50
014300 +0200	4201 4202 4203 4204 0017	----	1111	7A7B7C7D 0
014301 +0204	4205 4206 4207 4210 0017	----	1111	7E7F7G7H 0
014302 +0210	4211 4212 4213 4214 0017	----	1111	7I7J7K7L 0

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014303	+0214	4215	4216	4217	4220	0017	----	----	1111	7M7N707P 0
014304	+0220	4221	4222	4223	4224	0017	----	----	1111	7Q7R757T 0
014305	+0224	4254	0000	0015	0000	1012	--1-	----	1-1-	7= M HJ
014306	+0230	4231	4317	0000	0000	0014	----	----	11--	7Y8Q L
014307	+0234	0000	0000	4347	4240	1403	--11	----	--11	8*75LC
014310	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879 0
014311	+0244	4245	4246	4247	4250	0017	----	----	1111	7+7-7*7/ 0
014312	+0250	4251	0323	4165	4256	1017	--1-	----	1111	7(CS6 7,H0
014313	+0254	4255	4257	4262	4260	0017	----	----	1111	7 7.7 7 0
014314	+0260	4261	4263	4266	4264	0017	----	----	1111	7 7 7 7 0
014315	+0264	4265	4267	4270	4271	0017	----	----	1111	7 7 7 7 0
014316	+0270	4273	4272	4274	0217	0017	----	----	1111	7 7 7 80 0
014317	+0274	4275	4276	4277	4300	0017	----	----	1111	7 7 7 8 0
014320	+0300	4301	4302	4303	4304	0017	----	----	1111	8A888C8D 0
014321	+0304	4305	4306	4307	4310	0017	----	----	1111	8E8F8G8H 0
014322	+0310	4311	4312	4313	0363	0017	----	----	1111	8I8J8K8C 0
014323	+0314	4315	0245	0441	4320	0017	----	----	1111	8MB+068P 0
014324	+0320	4321	4322	4323	4324	0017	----	----	1111	8Q8R8S8T 0
014325	+0324	4325	4326	4327	4330	0017	----	----	1111	8U8V8W8X 0
014326	+0330	4331	4332	4333	4334	0017	----	----	1111	8Y8Z8081 0
014327	+0334	4340	0000	0001	0136	1413	--11	----	1-11	85 AA3LK
014330	+0340	4341	4343	4147	4344	1017	--1-	----	1111	86886*89H0
014331	+0344	4673	0000	0040	6500	1013	--1-	----	1-11	- 5 HK
014332	+0350	4351	4352	4353	4435	0017	----	----	1111	8(8)8892 0
014333	+0354	4355	4356	4357	4360	4017	1----	----	1111	8 8,8.8 50
014334	+0360	4361	4362	4363	4364	0017	----	----	1111	8 8 8 8 0
014335	+0364	4365	4366	4367	4370	0017	----	----	1111	8 8 8 8 0
014336	+0370	4371	4372	4373	4374	0017	----	----	1111	8 8 8 8 0
014337	+0374	4375	0330	4377	4400	1017	--1-	----	1111	8 CX8 9 H0
014340	+0400	0217	4402	4403	0430	2017	-1--	----	1111	809B9C0XPO
014341	+0404	4405	4406	4407	4410	4017	1----	----	1111	9E9F9G9H50
014342	+0410	0045	4412	4413	4414	2017	-1--	----	1111	+9J9K9LP0
014343	+0414	0213	0256	4417	0340	3017	-11-	----	1111	8KB,90C5X0
014344	+0420	0002	0171	4423	0457	7017	111-	----	1111	8A 95D. 0
014345	+0424	4425	0454	0104	0010	5417	1-11	----	1111	9UD=AD H=0
014346	+0430	0002	0001	0003	0302	7417	1111	----	1111	8 A CCB 0
014347	+0434	0152	4460	0037	4440	5417	1-11	----	1111	A19 495=0
014350	+0440	4441	0211	0110	0002	1417	--11	----	1111	96B1AH 8L0
014351	+0444	0417	0257	4447	4450	7017	111-	----	1111	D0B.9*9/ 0
014352	+0450	0465	0140	0452	0043	3417	-111	----	1111	0 A5D) 810
014353	+0454	0105	0024	6477	0302	6417	11-1	----	1111	AE T C6 0
014354	+0460	4463	0014	0036	4522	3017	-11-	----	1111	9 L 3+RX0
014355	+0464	0443	0062	5637	0063	7417	1111	----	1111	08 .4 0
014356	+0470	0410	0000	4473	0420	5013	1-1-	----	1-11	DH 9- DP/K
014357	+0474	4475	4476	0106	0000	4016	1----	----	111-	9 9 AF 5N
014360	+0500	0000	0000	0000	4504	0401	----	----	----	+DDA
014361	+0504	4505	4506	4507	4510	0017	----	----	1111	+E+F+G+H 0
014362	+0510	4511	4512	4513	4514	0017	----	----	1111	+I+J+K+L 0
014363	+0514	4515	0255	0247	0230	1417	--11	----	1111	+MB B*BXLO
014364	+0520	4521	0072	4545	4524	4417	1--1	----	1111	+Q ++T90
014365	+0524	0075	0024	0141	0023	3417	-111	----	1111	TA6 S10
014366	+0530	0044	0117	0021	0104	7417	1111	----	1111	9AD QAD 0
014367	+0534	0103	0054	0035	0143	7417	1111	----	1111	AC = 2A8 0
014370	+0540	0120	0021	0022	0015	7417	1111	----	1111	AP Q R M 0
014371	+0544	0012	4640	0102	4550	5417	1-11	----	1111	J-5AB +/-0
014372	+0550	0261	0446	0004	4554	3417	-111	----	1111	B D- D+=10
014373	+0554	0265	0066	4557	0451	3017	-11-	----	1111	B +.D(X0

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014374	+0560	0036	0003	4563	0047	7017	111-	----	1111	3 C+ * 0
014375	+0564	0070	0030	0027	0143	7417	1111	----	1111	X WA8 0
014376	+0570	0207	0040	0057	0130	7417	1111	----	1111	BG 5 .AX 0
014377	+0574	3777	0153	3777	0415	2417	-1-1	----	1111	4 A\$4 DMT0
014400	+0600	3777	0057	3777	0070	2417	-1-1	----	1111	4 .4 TO
014401	+0604	0064	0044	0040	0111	7417	1111	----	1111	9 5A1 0
014402	+0610	0064	4612	0055	0134	6417	11-1	----	1111	-J A1 0
014403	+0614	0050	0207	0046	0054	7417	1111	----	1111	/BG - = 0
014404	+0620	0053	0066	0102	0014	7417	1111	----	1111	\$ AB L 0
014405	+0624	4625	0031	4627	0262	5017	1-1-	----	1111	-U Y-WB /0
014406	+0630	4631	4632	4633	4634	4017	1----	----	1111	-Y-Z-0-150
014407	+0634	4635	4636	0435	0100	0417	----1	----	1111	-2-3D2A 00
014410	+0640	4661	0002	0043	0025	3417	-111	----	1111	- .B 8 U10
014411	+0644	0344	0061	0204	0005	7417	1111	----	1111	C9 BD E 0
014412	+0650	0204	0014	0005	0057	7417	1111	----	1111	BD L E . 0
014413	+0654	0073	0030	0026	0053	7417	1111	----	1111	X V \$ 0
014414	+0660	0004	4662	4675	0123	4417	1--1	----	1111	0- - AS90
014415	+0664	0113	0126	0207	4670	7417	1111	----	1111	AKAVBG- 0
014416	+0670	4671	4672	0123	5333	0017	-----	----	1111	- - AS\$0 0
014417	+0674	0353	5104	0002	0002	5417	1-11	----	1111	C\$4D B B=0
014420	+0700	0002	0002	0002	0001	7417	1111	----	1111	8 8 B A 0
014421	+0704	4705	0041	0013	4710	5417	1-11	----	1111	*E 6 K*H=0
014422	+0710	0004	0067	0072	0036	3417	-111	----	1111	0 310
014423	+0714	0103	0045	0217	0036	7417	1111	----	1111	AC +BD 3 0
014424	+0720	0034	0007	0046	0065	7417	1111	----	1111	1 G - 0
014425	+0724	0052	4726	0040	0420	6417	11-1	----	1111	J*V 5DP 0
014426	+0730	4731	0317	0236	0016	5417	1-11	----	1111	*YC083 N=0
014427	+0734	0056	0150	0001	0062	7417	1111	----	1111	,A/ A 0
014430	+0740	0044	0036	0037	0023	7417	1111	----	1111	9 3 4 S 0
014431	+0744	0336	0073	0046	4750	7417	1111	----	1111	C3 -* / 0
014432	+0750	0200	0405	4753	0026	3017	-11-	----	1111	B DE*\$ VX0
014433	+0754	0175	0035	0113	0104	7417	1111	----	1111	A 2AKAD 0
014434	+0760	4761	0035	4763	4764	5017	1-1-	----	1111	* 2* * /0
014435	+0764	4765	4766	4767	4770	0017	-----	----	1111	* * * * 0
014436	+0770	4771	0345	0240	0047	1417	--11	----	1111	* C+B5 *LO
014437	+0774	0056	0202	0273	0254	7417	1111	----	1111	,8BB B= 0
014440	+1000	0231	0132	0177	5004	7417	1111	----	1111	8YAZA /D 0
014441	+1004	0316	0210	0103	5010	3417	-111	----	1111	CNBHAC/H10
014442	+1010	0245	5012	0267	0211	2417	-1-1	----	1111	8+/JB 81TO
014443	+1014	5015	5016	0024	0366	4417	1--1	----	1111	/M/N TC 90
014444	+1020	0071	0106	0075	5024	7417	1111	----	1111	AF /T 0
014445	+1024	5025	5026	5027	0460	0017	----	----	1111	/U/V/WD 0
014446	+1030	0106	5032	5033	5034	6017	11--	----	1111	AF/Z/O/1 0
014447	+1034	5035	0233	0125	0136	1417	--11	----	1111	/280AUA3LO
014450	+1040	5041	0156	0137	5044	5417	1-11	----	1111	/6A,A4/9=0
014451	+1044	0264	0114	0200	5050	3417	-111	----	1111	B ALB //10
014452	+1050	0245	0472	0025	0007	3417	-111	----	1111	B+D: U G10
014453	+1054	0312	0164	0273	5060	7417	1111	----	1111	CJA B / 0
014454	+1060	5061	0321	0323	5064	1417	--11	----	1111	/ CQCS/ LO
014455	+1064	0240	0013	0024	0013	3417	-111	----	1111	85 K T K10
014456	+1070	0022	0013	0022	0013	7417	1111	----	1111	R K R K 0
014457	+1074	0021	0013	0022	0023	7417	1111	----	1111	Q K R S 0
014460	+1100	0115	5102	0040	0167	6417	11-1	----	1111	AM18 5A 0
014461	+1104	5121	0321	0305	0126	3417	-111	----	1111	(QCQCEAV10
014462	+1110	0101	0117	0243	0021	7417	1111	----	1111	AAA088 Q 0
014463	+1114	0230	5116	0232	0327	6417	11-1	----	1111	BX(NBZCW 0
014464	+1120	0015	5131	0361	0246	5417	1-11	----	1111	MEYC B--0

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014465	+1124	0002	5126	5127	5130	6017	11--	----	1111	BIV(W(X O
014466	+1130	0167	5200	0222	0033	1417	--11	----	1111	A ) BR OLO
014467	+1134	0164	5136	0106	0100	6417	11-1	----	1111	A (3AFA O
014470	+1140	0004	0056	5143	0046	7017	111-	----	1111	D , (8 - O
014471	+1144	5145	5146	0040	5150	4417	1--1	----	1111	(+(- 5(190
014472	+1150	5151	5152	0040	5154	0417	---1	----	1111	((1) 5(-00
014473	+1154	5155	5156	0022	0054	0417	---1	----	1111	( (, R -00
014474	+1160	0047	0134	0121	0072	7417	1111	----	1111	*A1AQ O
014475	+1164	0075	0034	0072	0253	7417	1111	----	1111	1 B\$ O
014476	+1170	0006	0074	0054	0070	7417	1111	----	1111	F = O
014477	+1174	0024	0054	0056	0103	7417	1111	----	1111	T = ,AC O
014500	+1200	5242	5202	0465	0174	2417	-1-1	----	1111	1718D A TO
014501	+1204	5205	5206	0020	0102	4417	1--1	----	1111	JE1F PAB90
014502	+1210	0373	5212	5213	0040	6017	11--	----	1111	C 1J)K 5 O
014503	+1214	5215	0046	5217	5220	5017	1-1-	----	1111	1M -10)P/O
014504	+1220	5221	0010	0056	0351	1417	--11	----	1111	1Q H ,C(LO
014505	+1224	0434	0417	5227	5230	7017	111-	----	1111	0100)W)X O
014506	+1230	5231	0471	5233	5234	1017	--1-	----	1111	1YD 10)1HO
014507	+1234	5235	0040	0210	0223	1417	--11	----	1111	12 5BHBSLO
014510	+1240	0334	0136	5266	5244	6417	11-1	----	1111	C1A3) 19 O
014511	+1244	5245	5246	5247	5250	0017	----	----	1111	1+)-1+)/ O
014512	+1250	5251	0414	5253	0071	1017	--1-	----	1111	1(OL)S HO
014513	+1254	5255	0252	5257	5260	5017	1-1-	----	1111	1 B)1.) /O
014514	+1260	5261	5262	5263	5264	0017	----	----	1111	1 ) ) ) O
014515	+1264	0112	0015	5312	0060	2417	-1-1	----	1111	AJ M\$J TO
014516	+1270	0124	0205	0175	5274	7417	1111	----	1111	ATBEA ) O
014517	+1274	5275	0237	5277	5300	1017	--1-	----	1111	1 B4) \$ HO
014520	+1300	5301	6476	5303	5304	1017	--1-	----	1111	\$A \$C\$DHO
014521	+1304	5305	5306	5307	5310	0017	----	----	1111	\$E\$F\$G\$H O
014522	+1310	0043	0261	5752	5314	2417	-1-1	----	1111	88 .1\$LTQ
014523	+1314	5315	5316	5317	5320	0017	----	----	1111	\$M\$N\$O\$P O
014524	+1320	5321	5322	5323	5324	0017	----	----	1111	\$Q\$R\$S\$T O
014525	+1324	5325	5326	5327	5330	0017	----	----	1111	\$U\$V\$W\$X O
014526	+1330	5331	0060	0263	5366	1017	--1-	----	1111	\$Y B \$ HO
014527	+1334	0000	0000	0000	0000	0000	----	----	----	

014534	+1360	0000	0000	0000	4160	0001	----	----	----	6 A
014535	+1364	0000	6135	5367	5370	0007	----	----	-111	2\$ \$ G
014536	+1370	5371	5372	5373	5374	0017	----	----	1111	\$ \$ \$ \$ O
014537	+1374	5534	5470	0156	5421	2417	-1-1	----	1111	1- A,-QTO
014540	+1400	5401	5402	5403	5404	4017	1----	----	1111	=A=B=C=D50
014541	+1404	5405	5406	5407	5410	0017	----	----	1111	=E=F=G=H O
014542	+1410	5411	5412	5413	5414	0017	----	----	1111	=I=J=K=L O
014543	+1414	0431	0112	5417	5420	3017	-11-	----	1111	DYAJ=D=PXO
014544	+1420	0160	5422	5423	5424	0017	----	----	1111	A =R=S=T O
014545	+1424	5425	5426	5427	5430	0017	----	----	1111	=U=V=W=X O
014546	+1430	5431	5432	5433	5434	0017	----	----	1111	=Y=Z=0=1 O
014547	+1434	5435	5436	5437	5440	0017	----	----	1111	=2=3=4=5 O
014550	+1440	5441	5442	5443	5444	0017	----	----	1111	=6=7=8=9 O
014551	+1444	5445	5446	5447	5450	0017	----	----	1111	=+=-=0=/ O
014552	+1450	0226	0452	5453	0174	3017	-11-	----	1111	BVD)= \$A XO
014553	+1454	5455	5456	5457	5460	4017	1----	----	1111	= ,,-,= 50
014554	+1460	5461	5462	5463	5464	0017	----	----	1111	= = = = O
014555	+1464	5465	0114	0227	0423	1417	--11	----	1111	= ALBWD5LO
014556	+1470	5471	5472	5473	5527	0017	----	----	1111	= = = W O
014557	+1474	5475	5476	5477	5500	4017	1----	----	1111	= = = 50
014560	+1500	5501	5502	0310	0166	0417	----	----	1111	A BCHA DO

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014561	+1504	0347	0063	5507	5510	7017	111-	----	1111	C*	G H O
014562	+1510	5511	5512	5513	5514	0017	----	----	1111	I J K L O	
014563	+1514	0460	0040	0013	5520	3417	-111	----	1111	D 5 K P10	
014564	+1520	5521	5522	5523	5524	0017	----	----	1111	Q R S T O	
014565	+1524	5525	5526	0027	5531	0017	----	----	1111	U V W Y O	
014566	+1530	0137	5532	5533	5546	4017	1----	----	1111	A4 Z O -50	
014567	+1534	5535	5536	5537	5540	0017	----	----	1111	2 3 4 5 O	
014570	+1540	5541	5542	5543	5544	0017	----	----	1111	6 7 8 9 O	
014571	+1544	5545	5636	5547	5550	0017	----	----	1111	+ , 3 * / O	
014572	+1550	5553	0005	0055	5624	3017	-11-	----	1111	\$ E ,TXO	
014573	+1554	5555	5556	5557	5560	4017	1----	----	1111	, . 50	
014574	+1560	5561	5562	5563	5564	0017	----	----	1111	O	
014575	+1564	5565	6353	0072	0124	1417	--11	----	1111	\$ ATLO	
014576	+1570	0143	0322	5573	5574	7017	111-	----	1111	A8CR O	
014577	+1574	5575	5576	5577	5600	0017	----	----	1111	, O	
014600	+1600	5601	5602	5603	5604	0017	----	----	1111	,A,B,C,D O	
014601	+1604	5605	5606	0265	5610	0417	----1	----	1111	,E,F,B ,HDO	
014602	+1610	5611	5612	5613	5614	0017	----	----	1111	,I,J,K,L O	
014603	+1614	5615	5616	5617	5620	0017	----	----	1111	,M,N,O,P O	
014604	+1620	5621	5622	0012	0004	0417	----1	----	1111	,Q,R J DDO	
014605	+1624	5625	5626	5627	5630	0017	----	----	1111	,U,V,W,X O	
014606	+1630	5631	5632	5633	5634	0017	----	----	1111	,Y,Z,O,1 O	
014607	+1634	5635	0000	6532	5640	0017	----	----	1111	,2 Z,5 O	
014610	+1640	5641	5642	5643	5644	0017	----	----	1111	,6,7,8,9 O	
014611	+1644	5645	5646	5647	5650	0017	----	----	1111	,+,-,*,/ O	
014612	+1650	5651	5652	5653	5654	0017	----	----	1111	,(,),\$,= O	
014613	+1654	5655	5656	5657	5660	0017	----	----	1111	, , , , , O	
014614	+1660	5661	5662	5663	5664	0017	----	----	1111	, , , , O	
014615	+1664	5665	5666	5667	5670	0017	----	----	1111	, , , , O	
014616	+1670	5671	5672	5673	5674	0017	----	----	1111	, , , , O	
014617	+1674	5675	5676	5677	5700	0017	----	----	1111	, , , . O	
014620	+1700	5701	6125	5746	5704	1417	--11	----	1111	.A U.-.DLO	
014621	+1704	5705	5706	5707	5710	0017	----	----	1111	.E.F.G.H O	
014622	+1710	5711	5712	5713	5714	0017	----	----	1111	.I.J.K.L O	
014623	+1714	5715	5716	5717	5720	0017	----	----	1111	.M.N.O.P O	
014624	+1720	5721	5722	5723	5724	0017	----	----	1111	.Q.R.S.T O	
014625	+1724	5725	5726	5727	5730	0017	----	----	1111	.U.V.W.X O	
014626	+1730	5731	5732	5733	5734	0017	----	----	1111	.Y.Z.O.1 O	
014627	+1734	5735	5736	5737	5740	0017	----	----	1111	.2.3.4.5 O	
014630	+1740	5741	5742	5743	5744	0017	----	----	1111	.6.7.8.9 O	
014631	+1744	5745	0500	6016	5750	0417	----1	----	1111	.+E N./DO	
014632	+1750	5751	0145	6312	5754	0417	----1	----	1111	.(A+ J.=DO	
014633	+1754	5755	0103	5757	5760	1017	--1-	----	1111	. AC... HO	
014634	+1760	5761	5762	5763	5764	0017	----	----	1111	. . . . O	
014635	+1764	5765	5766	5767	5770	0017	----	----	1111	. . . . O	
014636	+1770	5771	5772	5773	5774	0017	----	----	1111	. . . . O	
014637	+1774	5775	5776	5777	6000	0017	----	----	1111	. . . . O	
014640	+2000	6001	6002	6003	6004	0017	----	----	1111	A B C D O	
014641	+2004	6005	6006	6007	6010	0017	----	----	1111	E F G H O	
014642	+2010	6011	6012	6013	6014	0017	----	----	1111	I J K L O	
014643	+2014	6015	0332	6121	6020	0417	----1	----	1111	MCZ Q PDO	
014644	+2020	6021	0234	6023	6024	1017	--1-	----	1111	QB1 S THO	
014645	+2024	6025	6026	6027	6030	0017	----	----	1111	U V W X O	
014646	+2030	6031	6032	6033	6034	0017	----	----	1111	Y Z O 1 O	
014647	+2034	6035	6036	6037	6040	0017	----	----	1111	2 3 4 5 O	
014650	+2040	6041	6042	6043	6044	0017	----	----	1111	6 7 8 9 O	
014651	+2044	6045	6046	6047	6050	0017	----	----	1111	+ - * / O	

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014652	+2050	6051	6052	0224	6054	0417	----	1111	( )BT =00
014653	+2054	6055	6056	6057	6060	0017	----	1111	, . 0
014654	+2060	6061	6062	6063	6064	0017	----	1111	0
014655	+2064	6065	6066	6067	6070	0017	----	1111	0
014656	+2070	6071	6072	6073	6074	0017	----	1111	0
014657	+2074	6075	6076	6077	6100	0017	----	1111	0
014660	+2100	6101	6102	6103	6104	0017	----	1111	A B C D 0
014661	+2104	6105	6106	6107	6110	0017	----	1111	E F G H 0
014662	+2110	6111	6112	6113	6114	0017	----	1111	I J K L 0
014663	+2114	6115	6116	6117	0364	0017	----	1111	M N OC 0
014664	+2120	0165	6122	6123	6124	4017	1----	1111	A R S T50
014665	+2124	5365	6126	6127	6130	0017	----	1111	\$ V W X 0
014666	+2130	6131	6132	6133	6134	0017	----	1111	Y Z 0 1 0
014667	+2134	0164	0076	0000	6140	0415	----1	11-1	A 5DM
014670	+2140	6141	6142	6143	6144	0017	----	1111	6 7 8 9 0
014671	+2144	6145	6146	6147	6150	0017	----	1111	+ - * / 0
014672	+2150	6151	6152	6153	6154	0017	----	1111	( ) \$ = 0
014673	+2154	6155	6156	6157	6160	0017	----	1111	, . 0
014674	+2160	6161	6162	6163	6164	0017	----	1111	0
014675	+2164	6165	6166	6167	6170	0017	----	1111	0
014676	+2170	6171	6172	6173	6174	0017	----	1111	0
014677	+2174	6175	6176	6177	6200	0017	----	1111	0
014700	+2200	6201	6202	6203	0266	0017	----	1111	A B CB 0
014701	+2204	0000	0000	0000	0000	0000	----	----	----

014703	+2214	0117	0176	6217	6220	7017	111-	1111	AOA 0 P 0
014704	+2220	6221	6222	6223	6224	0017	----	1111	Q R S T 0
014705	+2224	6225	6226	6227	6230	0017	----	1111	U V W X 0
014706	+2230	6231	6232	6233	6234	0017	----	1111	Y Z 0 1 0
014707	+2234	6235	6236	6237	6240	0017	----	1111	2 3 4 5 0
014710	+2240	6241	6242	6243	6244	0017	----	1111	6 7 8 9 0
014711	+2244	6245	6246	6247	6250	0017	----	1111	+ - * / 0
014712	+2250	6251	6252	6253	6254	0017	----	1111	( ) \$ = 0
014713	+2254	6255	6256	6257	6260	0017	----	1111	, . 0
014714	+2260	6261	6262	6263	6264	0017	----	1111	0
014715	+2264	6265	6266	6267	6270	0017	----	1111	0
014716	+2270	6271	6272	6273	6274	0017	----	1111	0
014717	+2274	6275	6276	6277	6300	0017	----	1111	0
014720	+2300	6301	6302	6303	6304	0017	----	1111	A B C D 0
014721	+2304	6305	6306	6307	6310	0017	----	1111	E F G H 0
014722	+2310	0100	0363	6342	0025	2417	-1-1	1111	A C 7 UT0
014723	+2314	6315	6316	6317	6320	4017	1----	1111	M N O P50
014724	+2320	6321	6322	6323	6324	0017	----	1111	Q R S T 0
014725	+2324	6325	6326	6327	6330	0017	----	1111	U V W X 0
014726	+2330	6331	6332	6333	6334	0017	----	1111	Y Z 0 1 0
014727	+2334	6335	6336	6337	6340	0017	----	1111	2 3 4 5 0
014730	+2340	6341	0274	6343	6346	0017	----	1111	6B 8 - 0
014731	+2344	0044	0045	6361	0120	6417	11-1	1111	9 + AP 0
014732	+2350	0000	0000	0000	0064	0001	----	----	A
014733	+2354	0367	0152	6357	6360	7017	111-	1111	C A) . 0
014734	+2360	0006	6375	6363	0240	1017	--1-	1111	F 85H0
014735	+2364	0036	0037	0035	0030	7417	1111	1111	3 4 2 X 0
014736	+2370	0012	0022	0050	0050	7417	1111	1111	J R / / 0
014737	+2374	0004	6443	0202	0123	5417	1-11	1111	D 88BAS=0
014740	+2400	0150	0445	6403	0111	7017	111-	1111	A/D+ CAI 0
014741	+2404	6405	0022	6407	0047	5017	1-1-	1111	E R G */0
014742	+2410	6411	0140	0115	0301	5417	1-11	1111	IASAMCA=0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

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NOS 1-8JU3T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

014743	+2414	6415	0306	6417	0456	5017	1-1-	----	1111	MCF OD, /O
014744	+2420	0500	6422	0076	0175	6417	11-1	----	1111	E R A O
014745	+2424	6425	0367	6427	0022	5017	1-1-	----	1111	UC W R/O
014746	+2430	6431	0205	0147	6434	5417	1-11	----	1111	YBEA* 1=0
014747	+2434	0204	0266	0205	0154	3417	-111	----	1111	BDB BEA=10
014750	+2440	0306	0276	0366	4456	7017	111-	----	1111	CFB C 9, O
014751	+2444	0006	0003	6447	6450	7017	111-	----	1111	F C * / O
014752	+2450	6451	6452	6453	6454	0017	----	----	1111	( ) \$ = O
014753	+2454	6455	6456	6457	6460	0017	----	----	1111	, . O
014754	+2460	6461	6462	6463	6464	0017	----	----	1111	O
014755	+2464	6465	6466	6467	6470	0017	----	----	1111	O
014756	+2470	6471	6472	6473	6474	0017	----	----	1111	O
014757	+2474	6475	0024	0105	5363	0017	----	----	1111	TAE \$ O
014760	+2500	6501	6502	6503	6504	0017	----	----	1111	A B C D O
014761	+2504	6505	6506	6507	6510	0017	----	----	1111	E F G H O
014762	+2510	6511	6512	6513	6514	0017	----	----	1111	I J K L O
014763	+2514	6515	6516	6517	6520	0017	----	----	1111	M N O P O
014764	+2520	6521	6522	6523	6524	0017	----	----	1111	Q R S T O
014765	+2524	6525	6526	6527	6530	0017	----	----	1111	U V W X O
014766	+2530	6531	6556	6533	6534	0017	----	----	1111	Y , O 1 O
014767	+2534	6535	6536	6537	0433	0017	----	----	1111	2 3 400 O
014770	+2540	6541	0156	0141	0001	5417	1-11	----	1111	6A, A6 A=0
014771	+2544	0301	6546	6550	0136	6417	11-1	----	1111	CA - /A3 O
014772	+2550	6551	6552	6553	6554	0017	----	----	1111	( ) \$ = O
014773	+2554	6555	6557	6624	6560	0017	----	----	1111	. T O
014774	+2560	6561	6562	6563	6564	0017	----	----	1111	O
014775	+2564	6565	6566	6567	6570	0017	----	----	1111	O
014776	+2570	6571	6572	6573	6574	0017	----	----	1111	O
014777	+2574	6575	6576	6577	6600	0017	----	----	1111	O
015000	+2600	6601	6602	6603	6604	0017	----	----	1111	A B C D O
015001	+2604	6605	6606	6607	6610	0017	----	----	1111	E F G H O
015002	+2610	6611	6612	6613	0404	0017	----	----	1111	I J KDD O
015003	+2614	0000	0000	3777	0000	0002	----	----	--1-	4 B
015004	+2620	0000	0000	0000	5376	0401	----1	----	----	\$ DA
015005	+2624	6625	6626	6627	6630	0017	----	----	1111	U V W X O
015006	+2630	6631	6632	6633	6634	0017	----	----	1111	Y Z O 1 O
015007	+2634	6635	6636	6637	6640	0017	----	----	1111	2 3 4 5 O
015010	+2640	6641	6642	6643	6644	0017	----	----	1111	6 7 8 9 O
015011	+2644	6645	6646	6647	6650	0017	----	----	1111	+ - * / O
015012	+2650	6651	6652	6653	6654	0017	----	----	1111	( ) \$ = O
015013	+2654	6655	6656	6657	6660	0017	----	----	1111	, . O
015014	+2660	6661	6662	6663	6664	0017	----	----	1111	O
015015	+2664	6665	6666	6667	6670	0017	----	----	1111	O
015016	+2670	6671	6672	6673	6674	0017	----	----	1111	O
015017	+2674	6675	6676	6677	6700	0017	----	----	1111	O
015020	+2700	6701	6702	6703	6704	0017	----	----	1111	A B C D O
015021	+2704	6705	6706	6707	6710	0017	----	----	1111	E F G H O
015022	+2710	6711	6712	6713	6714	0017	----	----	1111	I J K L O
015023	+2714	6715	6716	6717	6720	0017	----	----	1111	M N O P O
015024	+2720	6721	6722	6723	6724	0017	----	----	1111	Q R S T O
015025	+2724	6725	6726	6727	6730	0017	----	----	1111	U V W X O
015026	+2730	6731	6732	6733	6734	0017	----	----	1111	Y Z O 1 O
015027	+2734	6735	6736	6737	6740	0017	----	----	1111	2 3 4 5 O
015030	+2740	6741	6742	6743	6744	0017	----	----	1111	6 7 8 9 O
015031	+2744	6745	6746	6747	6750	0017	----	----	1111	+ - * / O
015032	+2750	6751	6752	6753	6754	0017	----	----	1111	( ) \$ = O
015033	+2754	6755	6756	6757	6760	0017	----	----	1111	, . O

015034	+2760	6761	6762	6763	6764	0017	----	----	1111		0
015035	+2764	6765	6766	6767	6770	0017	----	----	1111		0
015036	+2770	6771	6772	6773	6774	0017	----	----	1111		0
015037	+2774	6775	6776	6777	7000	0017	----	----	1111		0
015040	+3000	7001	7002	7003	7004	0017	----	----	1111	A B C D	0
015041	+3004	7005	7006	7007	7010	0017	----	----	1111	E F G H	0
015042	+3010	7011	7012	7013	7014	0017	----	----	1111	I J K L	0
015043	+3014	7015	7016	7017	7021	0017	----	----	1111	M N O Q	0
015044	+3020	3777	7022	7023	7024	0017	----	----	1111	4 R S T	0
015045	+3024	7025	7026	7027	7030	0017	----	----	1111	U V W X	0
015046	+3030	7031	7032	7033	7034	0017	----	----	1111	Y Z O I	0
015047	+3034	7035	7036	7037	7040	0017	----	----	1111	2 3 4 5	0
015050	+3040	7041	7042	7043	7044	0017	----	----	1111	6 7 8 9	0
015051	+3044	7045	7046	7047	7050	0017	----	----	1111	+ - * /	0
015052	+3050	7051	7052	7053	7054	0017	----	----	1111	1 1 \$ -	0
015053	+3054	7055	7056	7057	7060	0017	----	----	1111	.	0
015054	+3060	7061	7062	7063	7064	0017	----	----	1111		0
015055	+3064	7065	7066	7067	7070	0017	----	----	1111		0
015056	+3070	7071	7072	7073	7074	0017	----	----	1111		0
015057	+3074	7075	7076	7077	7100	0017	----	----	1111		0
015060	+3100	7101	7102	7103	7104	0017	----	----	1111	A B C D	0
015061	+3104	7105	7106	7107	7110	0017	----	----	1111	E F G H	0
015062	+3110	7111	7112	7113	7114	0017	----	----	1111	I J K L	0
015063	+3114	7115	7116	7117	7120	0017	----	----	1111	M N O P	0
015064	+3120	7121	7122	7123	7124	0017	----	----	1111	Q R S T	0
015065	+3124	7125	7126	7127	7130	0017	----	----	1111	U V W X	0
015066	+3130	7131	7132	7133	7134	0017	----	----	1111	Y Z O I	0
015067	+3134	7135	7136	7137	4253	0017	----	----	1111	2 3 4 7	0

EQUIPMENT 11 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 015070 3150	Y/ FZ5=0D	ALLOCATION FLAGS	DILL 015103 0000	TS	B
RESERVED	0000		CH 2 ACCESS 7154 FLAG	24		
LENGTH OF TRT	0632		CH 1 ACCESS 7154 FLAG	23		
FIRST AVAIL TRACK PTR	4054		CH 4 ACCESS 7154 FLAG	00		
NUM AVAILABLE TRACKS	1704		CH 3 ACCESS 7154 FLAG	00		
FLAGS / INTERLOCK	ACGL 015071 0000	AK A	BIT 21 IS MAINTENANCE MODE	0		
DA ECS CHAIN FIRST TRACK	0000		MEMORY TYPE - 3 BIT VALUE	0		
DIRECT ACCESS FILE CNT	0113		CPU TYPE - 3 BIT VALUE	0		
FIRST TRACK IQFT	0000		PP PATH TYPE - 3 BIT VALUE	0		
REDEFINITION STATUSES	01		RESERVED	00		
PF UTILITY INTERLOCK	00		ALGORITHM INDEX	02		
ECS ADDRESS MST/TRT	SDGL 015072 00000000		DAYFILE TRACK	DULL 015104 0000		
ECS UPDATE COUNT	0000000000		ACCOUNT FILE TRACK	0000		
MACHINE MASK INTERLOCK	00		ERRLOG TRACK	0000		
FIRST TRACK IAPF	ALGL 015073 4022	5R5 5S P	SYSTEM TABLE TRACK	0000		
LABEL TRACK	4000		FAMILY IDLE STATUS	0		
FIRST TRACK PERMITS	4023		FAMILY ACTIVITY COUNT	000		
NUMBER CATALOG TRACKS	0020		LOCAL STATUS FLAGS	STLL 015105 0000	62	A
FIRST TRACK DAT	0000		RESERVED	00		
FAMILY OR PACK NAME	PFGL 015074 24232407051600	TSTGEN	ERROR STATUS	00		
DEVICE NUMBER	00		MACHINE ID	4135		
RESERVED	00		CURRENT USER COUNT DAF	0000		
REL UNIT MULTIUNIT DEV	0		NEXT EQUIPMENT	00		
NUM UNIT MULTIUNIT DEV	0		ORIGINAL NUMBER UNITS	0		
USLR NUM PRIVATE PACK	PUGL 015075 0000000000000000		LOCAL STATUS	1		
DEVICE MASKS	577777		REDEF IN PROG/NULL EQ	DDLL 015106 0		B

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 0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH. NOS 1-8J03T/R2B. NOS L.4 STUDY DUMP - MASS STORAGE

FLAGS AND DAT INDEX MDGL 015076 7000 88DI C8 RESERVED 0  
 FT-HT FLAG \*\* SECTOR LIMIT 4343 NUMBER PHYSICAL UNITS - 1 00  
 DRIVER NAME 0411 EQUIPMENT UNIT LIST 000000000000000002  
 O RESERVED FOR PPR USE 0000 LOCAL INSTAL AREA ISLL 015107 00000000000000000000  
 SECTOR LIMIT 0343  
 RESERVED R1GL 015077 0000000000000000000000  
 GLOBAL INSTAL AREA ISGL 015100 0000000000000000000000  
 I2GL 015101 000000000000000000000000  
 DALL 015102 0000 5  
 ACTIVITY COUNT 0000  
 UNIT INTERLOCKS 4000  
 CURRENT POSITION 7777  
 NEXT BEST POSITION 0000  
 RESERVED

# TRACK RESERVATION TABLE

015110	+0000	4001	4002	4003	4004	4017	1---	----	1111	5A5B5C5D50
015111	+0004	4005	4006	4007	4010	0017	----	----	1111	5E5F5G5H 0
015112	+0010	4011	4012	4013	4014	0017	----	----	1111	5I5J5K5L 0
015113	+0014	4015	4016	4017	4020	0017	----	----	1111	5M5N5O5P 0
015114	+0020	4021	0000	4371	0076	1417	--11	----	1111	5Q 8 LO
015115	+0024	0102	4026	4027	4030	6017	11--	----	1111	AB5V5W5X 0
015116	+0030	4031	4032	4033	4034	0017	----	----	1111	5Y5Z5051 0
015117	+0034	4035	0110	0015	0027	1417	--11	----	1111	5ZAH M WLO
015120	+0040	0015	0020	0041	0006	7417	1111	----	1111	M P 6 F 0
015121	+0044	0034	4060	4230	4050	7417	1111	----	1111	15 7X5/ 0
015122	+0050	4051	4052	4053	4054	0017	----	----	1111	5(5)5(5)= 0
015123	+0054	0130	0152	4063	0256	3417	-111	----	1111	AXA)5 B,10
015124	+0060	0017	0001	6431	4064	2017	-1--	----	1111	0 A Y5 PO
015125	+0064	4065	4066	4067	4070	0017	----	----	1111	5 5 5 5 0
015126	+0070	4071	4072	4073	4074	0017	----	----	1111	5 5 5 5 0
015127	+0074	4075	4076	4077	4100	0017	----	----	1111	5 5 5 6 0
015130	+0100	4101	4102	4103	4104	0017	----	----	1111	6A6B6C6D 0
015131	+0104	4105	4106	4107	4110	0017	----	----	1111	6E6F6G6H 0
015132	+0110	4111	4112	4113	4114	0017	----	----	1111	6I6J6K6L 0
015133	+0114	4115	4116	4117	4120	0017	----	----	1111	6M6N6O6P 0
015134	+0120	4121	4122	4123	4124	0017	----	----	1111	6Q6R6S6T 0
015135	+0124	4125	4126	4127	4130	0017	----	----	1111	6U6V6W6X 0
015136	+0130	4131	4132	4133	4134	0017	----	----	1111	6Y6Z6061 0
015137	+0134	4135	4136	0011	4140	0417	---1	----	1111	6Z63 165D0
015140	+0140	4141	4142	4143	4144	0017	----	----	1111	66676869 0
015141	+0144	4145	4146	4147	4150	0017	----	----	1111	6*6-6*6/ 0
015142	+0150	4151	4152	4153	4154	0017	----	----	1111	6(6)6(6)= 0
015143	+0154	4155	4156	4157	4160	0017	----	----	1111	6 6,6.6 0
015144	+0160	4161	4162	4164	3777	0017	----	----	1111	6 6 6 4 0
015145	+0164	4165	4166	4167	4170	0017	----	----	1111	6 6 6 6 0
015146	+0170	4171	4172	4173	4174	0017	----	----	1111	6 6 6 6 0
015147	+0174	4175	4176	4177	4200	0017	----	----	1111	6 6 6 7 0
015150	+0200	4201	4202	4203	4204	0017	----	----	1111	7A7B7C7D 0
015151	+0204	4205	4206	4207	4211	0017	----	----	1111	7E7F7G7I 0
015152	+0210	5362	4212	4213	5113	0017	----	----	1111	7 7J7K(K 0
015153	+0214	0167	4216	4221	4227	2417	-1-1	----	1111	A 7N7Q7WTO
015154	+0220	4214	4222	4223	4224	4017	1---	----	1111	7L7R7S7T50
015155	+0224	4225	4226	0072	4231	0017	----	----	1111	7U7V 7Y 0
015156	+0230	4232	4235	4233	4234	0017	----	----	1111	7Z727071 0
015157	+0234	0034	0132	4247	4240	1417	--11	----	1111	1AZ7*75L0
015160	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879 0

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0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

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015161	+0244	4245	4246	0076	4250	0017	----	----	1111	7+7- 7/ 0
015162	+0250	4251	4252	4253	4254	0017	----	----	1111	7(7)7+7- 0
015163	+0254	4255	4256	0243	4260	0017	----	----	1111	7 7,887 0
015164	+0260	4261	4262	0255	0015	0417	----	----	1111	7 7 8 MDO
015165	+0264	0000	5302	4267	4270	1007	--1-	----	-111	887 7 HG
015166	+0270	4272	3777	0130	3777	0017	----	----	1111	7 4 AX4 0
015167	+0274	3777	3777	0001	4300	1417	--11	----	1111	4 4 AB LO
015170	+0300	4301	4302	0120	0001	0417	----	----	1111	8A88AP ADD
015171	+0304	0001	4306	4307	4310	6017	11--	----	1111	ABF8G8H 0
015172	+0310	4311	4312	4313	4314	0017	----	----	1111	818J8K8L 0
015173	+0314	4315	0336	4320	3777	1017	--1-	----	1111	8MC38P4 HO
015174	+0320	4322	3777	4323	4324	0017	----	----	1111	8R4 8S8T 0
015175	+0324	4325	0130	4327	4330	1017	--1-	----	1111	8UAX8W8XHO
015176	+0330	4331	4332	4333	4334	0017	----	----	1111	8Y8Z8081 0
015177	+0334	4335	4336	4337	4340	0017	----	----	1111	82838485 0
015200	+0340	4341	0336	4343	4344	1017	--1-	----	1111	86C38889HO
015201	+0344	4345	4346	4347	0153	0017	----	----	1111	8+8-8+A8 0
015202	+0350	4351	4352	4353	0112	4017	1----	----	1111	8(8)88AJ50
015203	+0354	4355	4356	4357	4360	4017	1----	----	1111	8 8,8.8 50
015204	+0360	4361	4362	4363	4364	0017	----	----	1111	8 8 8 8 0
015205	+0364	4365	4366	4367	0325	0017	----	----	1111	8 8 8 CU 0
015206	+0370	0003	4372	4373	4374	4017	1----	----	1111	C8 8 8 50
015207	+0374	4375	4376	4377	4403	0017	----	----	1111	8 8 8 9C 0
015210	+0400	4401	0023	0000	4404	4015	1----	----	11-1	9A S 9D5M
015211	+0404	4405	4406	4444	4410	0417	----	----	1111	9E9F999HDO
015212	+0410	4411	4412	4413	4414	0017	----	----	1111	9I9J9K9L 0
015213	+0414	4415	0151	0000	0000	0014	----	----	11--	9MA( L
015214	+0420	4257	0000	0000	0000	0010	----	----	1----	7. H
015215	+0424	0000	0000	0000	0000	0000	----	----	----	

015217	+0434	0001	4436	4437	4440	6017	11--	----	1111	A939495 0
015220	+0440	4441	4442	4443	0151	0017	----	----	1111	969798A( 0
015221	+0444	4636	0000	0000	0000	0010	----	----	1----	-3 H
015222	+0450	0000	0000	4453	4454	1003	--1-	----	--11	989=HC
015223	+0454	4455	0262	0002	4460	1417	--11	----	1111	9 8 89 LO
015224	+0460	4461	4462	4463	4464	0017	----	----	1111	9 9 9 9 0
015225	+0464	4465	4466	4467	4470	0017	----	----	1111	9 9 9 9 0
015226	+0470	4471	4472	4473	4474	0017	----	----	1111	9 9 9 9 0
015227	+0474	4475	4476	4477	4500	0017	----	----	1111	9 9 9 + 0
015230	+0500	4501	4502	4503	4504	0017	----	----	1111	+A+B+C+D 0
015231	+0504	4505	4506	4507	4510	0017	----	----	1111	+E+F+G+H 0
015232	+0510	4511	4512	4513	4514	0017	----	----	1111	+I+J+K+L 0
015233	+0514	4515	4516	4517	4520	0017	----	----	1111	+M+N+O+P 0
015234	+0520	4521	4522	4523	4524	0017	----	----	1111	+Q+R+S+T 0
015235	+0524	4525	4526	4527	4530	0017	----	----	1111	+U+V+W+X 0
015236	+0530	4531	4532	4533	4534	0017	----	----	1111	+Y+Z+0+1 0
015237	+0534	4535	4536	4537	4540	0017	----	----	1111	+2+3+4+5 0
015240	+0540	4541	4542	4543	4544	0017	----	----	1111	+6+7+8+9 0
015241	+0544	4545	4546	4547	4550	0017	----	----	1111	+++--++/ 0
015242	+0550	4551	4552	4553	4554	0017	----	----	1111	+(+)+\$+= 0
015243	+0554	4555	4556	4557	4560	0017	----	----	1111	+ +,+,+ 0
015244	+0560	4561	4562	4563	4564	0017	----	----	1111	+ + + + 0
015245	+0564	4565	4566	4567	4570	0017	----	----	1111	+ + + + 0
015246	+0570	4571	4572	4573	4574	0017	----	----	1111	+ + + + 0
015247	+0574	4575	4576	4577	4600	0017	----	----	1111	+ + + - 0
015250	+0600	4601	4602	4603	4604	0017	----	----	1111	-A-B-C-D 0
015251	+0604	4605	4606	4607	4610	0017	----	----	1111	-E-F-G-H 0

RA = MST,6,7,11,12,13,14.  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

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015252	+0610	4611	4612	4613	4614	0017	----	----	1111	-I-J-K-L O
015253	+0614	4615	4616	4617	4620	0017	----	----	1111	-M-N-O-P O
015254	+0620	4621	4622	4623	4624	0017	----	----	1111	-Q-R-S-T O
015255	+0624	4625	4626	4627	4630	0017	----	----	1111	-U-V-W-X O
015256	+0630	4631	4632	4633	4634	0017	----	----	1111	-Y-Z-O-1 O
015257	+0634	4635	0150	4734	4640	0417	----	----	1111	-2A/*1-500
015260	+0640	0160	4642	4643	4644	2017	-1--	----	1111	A -7-8-9PO
015261	+0644	4645	4646	4647	4650	0017	----	----	1111	-+----+/- O
015262	+0650	4651	4652	4653	4654	0017	----	----	1111	-(-)-\$-# O
015263	+0654	4655	4656	4657	4660	0017	----	----	1111	-,-,-,- O
015264	+0660	0024	4662	4663	4664	2017	-1--	----	1111	T- - - PO
015265	+0664	4665	4666	4667	4670	0017	----	----	1111	- - - - O
015266	+0670	4671	4672	4673	4674	0017	----	----	1111	- - - - O
015267	+0674	4675	0167	4677	4700	1017	--1-	----	1111	- A - * HO
015270	+0700	4701	4702	4703	4704	0017	----	----	1111	*A*B*C*D O
015271	+0704	4705	4706	4707	4710	0017	----	----	1111	*E*F*G*H O
015272	+0710	4711	4712	0061	4714	0417	----	----	1111	*I*J *LDU
015273	+0714	4715	4716	4717	4720	0017	----	----	1111	*M*N*O*P O
015274	+0720	4721	4722	4723	4724	0017	----	----	1111	*Q*R*S*T O
015275	+0724	4725	4726	4727	4730	0017	----	----	1111	*U*V*W*X O
015276	+0730	4731	4732	4733	0100	0017	----	----	1111	*Y*Z*OA O
015277	+0734	5026	4736	4737	4740	2017	-1--	----	1111	/V*3*4*5PO
015300	+0740	4741	4742	0032	4744	0417	----	----	1111	*6*7 Z*900
015301	+0744	4745	4746	4747	4750	0017	----	----	1111	*+-+*** O
015302	+0750	4751	4752	4753	4754	0017	----	----	1111	*(*)*#* O
015303	+0754	4755	4756	4757	4760	0017	----	----	1111	* *,*,* O
015304	+0760	4761	4762	4763	4764	0017	----	----	1111	* * * * O
015305	+0764	4765	4766	4767	4770	0017	----	----	1111	* * * * O
015306	+0770	4771	4772	4773	4774	0017	----	----	1111	* * * * O
015307	+0774	4775	4776	4777	5000	0017	----	----	1111	* * * / O
015310	+1000	5001	5002	5003	5004	0017	----	----	1111	/A/B/C/D O
015311	+1004	5005	5006	5007	5010	0017	----	----	1111	/E/F/G/H O
015312	+1010	5011	0227	5013	5014	1017	--1-	----	1111	/IBW/K/LHO
015313	+1014	0273	0000	0000	0000	0010	----	----	1---	B H
015314	+1020	0000	0000	0000	0000	0000	----	----	----	----
015315	+1024	0000	0000	5271	0012	0403	----	----	--11	) JDC
015316	+1030	5031	5032	0270	5034	4417	1--1	----	1111	/Y/Z8 /190
015317	+1034	5035	5036	5037	5040	0017	----	----	1111	/2/3/4/5 O
015320	+1040	5041	5042	5043	5044	0017	----	----	1111	/6/7/8/9 O
015321	+1044	5045	5046	5047	5050	0017	----	----	1111	/+/-/*// O
015322	+1050	5051	5052	5053	5054	0017	----	----	1111	/(/)/#/= O
015323	+1054	5055	5056	5057	5060	0017	----	----	1111	/ /,./ O
015324	+1060	5061	5062	5063	5064	0017	----	----	1111	/ / / / O
015325	+1064	5065	5066	5067	5070	0017	----	----	1111	/ / / / O
015326	+1070	5071	5072	5073	5074	0017	----	----	1111	/ / / / O
015327	+1074	5075	5076	5077	5100	0017	----	----	1111	/ / / / O
015330	+1100	5101	5102	5103	5104	0017	----	----	1111	(A(B(C(D O
015331	+1104	5105	5106	5107	5110	0017	----	----	1111	(E(F(G(H O
015332	+1110	0265	0000	0000	5114	0011	----	----	1--1	B (L I
015333	+1114	0011	0041	5117	5120	3017	-11-	----	1111	I 6(O(PXO
015334	+1120	5121	5122	5123	5124	0017	----	----	1111	(O(R(S(T O
015335	+1124	5125	0137	5127	5130	1017	--1-	----	1111	(UA4(W(XHO
015336	+1130	5131	5132	5133	0032	0017	----	----	1111	(Y(Z(O Z O
015337	+1134	5135	5136	0332	0043	4417	1--1	----	1111	(2(3CZ 890
015340	+1140	5141	5142	0043	5144	4417	1--1	----	1111	(6(7 8(990
015341	+1144	5145	0335	5147	5150	1017	--1-	----	1111	(+C2(+(/HO
015342	+1150	0054	5152	5153	5154	2017	-1--	----	1111	=(())(=PO

RA = MST,6,7,11,12,13,14.  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

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NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

015343	+1154	5155	5156	5157	5160	0017	----	----	1111	( ( ( ( 0
015344	+1160	5161	5162	0224	5164	0417	----	----	1111	( ( 8T ( 00
015345	+1164	5165	5166	5167	5170	0017	----	----	1111	( ( ( ( 0
015346	+1170	5171	5172	5173	5174	0017	----	----	1111	( ( ( ( 0
015347	+1174	5175	5176	5177	5200	0017	----	----	1111	( ( ( ) 0
015350	+1200	5201	5202	5203	5204	0017	----	----	1111	)A)B)C)D 0
015351	+1204	5206	3777	0255	5210	0417	----	----	1111	)F4 8 )HDD
015352	+1210	5211	0301	5213	5214	1017	----	----	1111	)ICA)K)ILO
015353	+1214	5216	5217	5220	5223	0017	----	----	1111	)N)O)P)S 0
015354	+1220	5221	5222	5224	5225	0017	----	----	1111	)Q)R)T)U 0
015355	+1224	5226	5230	5227	5231	0017	----	----	1111	)V)X)W)Y 0
015356	+1230	5233	5232	5275	5303	0017	----	----	1111	)O)Z) )C 0
015357	+1234	0303	4265	0000	5240	4415	1--1	----	11--1	CC7 )59H
015360	+1240	5241	5242	0113	0240	0417	----	----	1111	)6)7AKB5DD
015361	+1244	0115	0000	0000	0000	4010	1----	----	1----	AM 5H
015362	+1250	0000	0000	0000	0000	0000	----	----	----	
015363	+1254	0000	0000	0103	5260	1403	--11	----	--11	AC) LC
015364	+1260	5261	5262	5263	5264	0017	----	----	1111	) ) ) ) 0
015365	+1264	5265	5266	5267	5270	0017	----	----	1111	) ) ) ) 0
015366	+1270	0001	5272	5273	5277	0017	----	----	1111	A) ) ) 0
015367	+1274	5215	5276	5304	5235	4017	1----	----	1111	)M) )D)250
015370	+1300	0000	0000	4210	5307	0003	----	----	--11	7H)G C
015371	+1304	5305	5306	5310	0227	0017	----	----	1111	\$E)F)H)BW 0
015372	+1310	0012	0000	0000	0000	0010	----	----	1----	J H
015373	+1314	0000	0000	0000	0000	0000	----	----	----	

015404	+1360	0000	0000	4062	0000	0002	----	----	--1-	5 B
015405	+1364	0000	0000	0000	0000	0000	----	----	----	

015514	+2020	0000	0000	3777	0000	0002	----	----	--1-	4 B
015515	+2024	0000	0000	0000	0000	0000	----	----	----	

015520	+2040	0000	0000	3777	0000	0002	----	----	--1-	4 B
015521	+2044	0000	0000	0000	0000	0000	----	----	----	

015552	+2210	0000	0000	3777	0000	0002	----	----	--1-	4 B
015553	+2214	3777	0000	0000	0000	0010	----	----	1----	4 H
015554	+2220	0000	0000	0000	0000	0000	----	----	----	

015616	+2430	0000	4420	0000	0000	0004	----	----	-1--	9P D
015617	+2434	0000	0000	0000	0000	0000	----	----	----	

#### EQUIPMENT 12 - MASS STORAGE TABLE

NUMBER OF TRACKS	TDGL 015750 3222			ZR F+8-H/
RESERVED		0000		
LENGTH OF TRT		0645		
FIRST AVAIL TRACK PTR		4346		
NUM AVAILABLE TRACKS		1050		
FLAGS / INTERLOCK	ACGL 015751 4000			5 K3 A
DA ECS CHAIN FIRST TRACK		0000		
DIRECT ACCESS FILE CNT		1336		
FIRST TRACK IQFT		0000		
REDEFINITION STATUSES		01		
PF UTILITY INTERLOCK		00		
ECS ADDRESS MST/TRT	SDGL 015752 00000000			

ALLOCATION FLAGS	DILL 015763 0000			** F
CH 2 ACCESS 7154 FLAG		45		
CH 1 ACCESS 7154 FLAG		47		
CH 4 ACCESS 7154 FLAG		00		
CH 3 ACCESS 7154 FLAG		00		
BIT 21 IS MAINTENANCE MODE		0		
MEMORY TYPE - 3 BIT VALUE		0		
CPU TYPE - 3 BIT VALUE		0		
PP PATH TYPE - 3 BIT VALUE		0		
RESERVED		00		
ALGORITHM INDEX		06		
DAYFILE TRACK	DULL 015764 0000			

RA = MST,6,7,11,12,13,14. EXPRESS 11 DSDI - V2.0 79/10/30. 10.59.51. PAGE 21  
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ECS UPDATE COUNT 0000000000  
 MACHINE MASK INTERLOCK 00  
 FIRST TRACK IAPF ALGL 015753 4012 5J5 5K H  
 LABEL TRACK 4000  
 FIRST TRACK PERMITS 4013  
 NUMBER CATALOG TRACKS 0010  
 FIRST TRACK DAT 0000  
 FAMILY OR PACK NAME PFGL 015754 16172303142310 NOSCLSH7  
 DEVICE NUMBER 42  
 RESERVED 00  
 REL UNIT MULTIUNIT DEV 0  
 NUM UNIT MULTIUNIT DEV 0  
 USER NUM PRIVATE PACK PUGL 015755 0000000000000000 5LC  
 DEVICE MASKS 401403  
 FLAGS AND DAT INDEX MDGL 015756 1000 H J DI J  
 FT-HT FLAG \*/\* SECTOR LIMIT 1200  
 DRIVER NAME 0411  
 O RESERVED FOR PPR USE 0000  
 SECTOR LIMIT 1200  
 RESERVED  
 GLOBAL INSTAL AREA RIGL 015757 00000000000000000000  
 ISGL 015760 0000000000000000000000  
 I2GL 015761 0000000000000000000000  
 DALL 015762 0000 .C  
 ACTIVITY COUNT  
 UNIT INTERLOCKS 0000  
 CURRENT POSITION 5703  
 NEXT BEST POSITION 7777  
 RESERVED 0000

ACCOUNT FILE TRACK 0000  
 ERRLOG TRACK 0000  
 SYSTEM TABLE TRACK 0000  
 FAMILY IOLE STATUS 0  
 FAMILY ACTIVITY COUNT 000  
 LOCAL STATUS FLAGS STILL 015765 0000 62 K A  
 RESERVED 00  
 ERROR STATUS 00  
 MACHINE ID 4135  
 CURRENT USER COUNT DAF 0013  
 NEXT EQUIPMENT 00  
 ORIGINAL NUMBER UNITS 0  
 LOCAL STATUS 1  
 REDEF IN PROG/NULL EQ DOLL 015766 0 5  
 RESERVED 0  
 NUMBER PHYSICAL UNITS - 1 00  
 EQUIPMENT UNIT LIST 000000000000000040  
 LOCAL INSTAL AREA ISLL 015767 00000000000000000000

# TRACK RESERVATION TABLE

015770 +0000	4001	4002	4003	4004	4017	1---	----	1111	5A585C5D50
015771 +0004	4005	4006	4007	4010	0017	----	----	1111	5E5F5G5H 0
015772 +0010	4011	0000	4014	0250	1417	--11	----	1111	5I 5LB/L0
015773 +0014	4047	1027	0103	0212	3417	-111	----	1111	5*HWACBJ10
015774 +0020	4021	0372	0121	0321	5417	1-11	----	1111	5QC AQCO=0
015775 +0024	0317	0167	0006	0162	7417	1111	----	1111	COA FA 0
015776 +0030	1066	0410	1032	0652	7417	1111	----	1111	H DHHZF) 0
015777 +0034	0162	0001	0144	0003	7417	1111	----	1111	A AA9 C 0
016000 +0040	0161	0124	0111	0651	7417	1111	----	1111	A ATAIF( 0
016001 +0044	0002	0003	0001	4062	7017	111-	----	1111	B C A5 0
016002 +0050	0663	4052	0764	4054	6417	11-1	----	1111	F 5)G 5- 0
016003 +0054	0275	0245	0002	0005	3417	-111	----	1111	B B+ B E10
016004 +0060	0004	0046	4101	0107	6417	11-1	----	1111	D -6AAG 0
016005 +0064	0064	0353	0026	0624	7417	1111	----	1111	C\$ VFT 0
016006 +0070	0006	0020	0723	0110	7417	1111	----	1111	F PGSAH 0
016007 +0074	4075	0447	0116	0056	5417	1-11	----	1111	5 D*AN ,=0
016010 +0100	0213	4125	0103	4104	5417	1-11	----	1111	8K6UAC6D=0
016011 +0104	0156	0457	0420	0441	3417	-111	----	1111	A,D.DPD610
016012 +0110	0410	0150	0067	0345	7417	1111	----	1111	DHA/ C+ 0
016013 +0114	0352	0056	0352	0206	7417	1111	----	1111	C) ,C18F 0
016014 +0120	4121	0706	0050	4124	5417	1-11	----	1111	62GF /6T=0
016015 +0124	0607	4170	0130	4130	1417	--11	----	1111	FG6 AX6XLO
016016 +0130	4131	0715	4133	1074	1017	--1-	----	1111	6YGM60H HO
016017 +0134	0063	4136	0704	4140	6417	11-1	----	1111	63G065 0
016020 +0140	4141	4142	4143	4144	0017	----	----	1111	66676869 0
016021 +0144	4145	4146	4147	0723	0017	----	----	1111	6+6-6*GS 0
016022 +0150	0032	4152	4153	0044	6017	11--	----	1111	7616\$ 9 0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

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NOS 1-BJ03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

016023	+0154	0040	0126	4157	0010	7017	111-	----	1111	5AV6. H Q
016024	+0160	0107	4162	0707	0002	6417	11-1	----	1111	AG6 GC B Q
016025	+0164	4165	4166	4167	0565	4017	1---	----	1111	6 6 6 E 50
016026	+0170	4222	0336	0117	0300	3417	-111	----	1111	7RC3AUC 10
016027	+0174	0125	0053	0002	4200	7417	1111	----	1111	AU \$ B7 Q
016030	+0200	0135	4202	0141	0041	2417	-1-1	----	1111	A278A6 6TO
016031	+0204	0053	0011	1030	0125	7417	1111	----	1111	\$ IHXAU Q
016032	+0210	4211	0135	0003	0053	5417	1-11	----	1111	7IA2 C \$=Q
016033	+0214	0037	0277	0136	0001	7417	1111	----	1111	4B A3 A Q
016034	+0220	0117	0004	4302	0057	6417	11-1	----	1111	AO D8B . Q
016035	+0224	4225	0172	0012	0527	5417	1-11	----	1111	7UA JEW=Q
016036	+0230	0716	0004	0306	0574	7417	1111	----	1111	GN DCFE Q
016037	+0234	0004	0043	0004	0004	7417	1111	----	1111	D 8 D D Q
016040	+0240	0004	0213	0105	0206	7417	1111	----	1111	DBKAEBF Q
016041	+0244	0245	4246	4247	0240	6017	11--	----	1111	B+7-7+B5 Q
016042	+0250	0002	0206	0002	0210	7417	1111	----	1111	BBF BBH Q
016043	+0254	0105	0004	0002	0111	7417	1111	----	1111	AE D BAI Q
016044	+0260	0014	0101	0240	0143	7417	1111	----	1111	LAAB5A8 Q
016045	+0264	0105	0001	0262	0632	7417	1111	----	1111	AE AB FZ Q
016046	+0270	0007	0114	0107	0260	7417	1111	----	1111	GALAGB Q
016047	+0274	0033	0143	0105	0240	7417	1111	----	1111	OABAE85 Q
016050	+0300	0036	0145	4345	0241	6417	11-1	----	1111	3A+8+B6 Q
016051	+0304	0214	0001	0004	4310	7417	1111	----	1111	BL A D8H Q
016052	+0310	4311	4312	4313	0113	0017	----	----	1111	818J8KAK Q
016053	+0314	0105	0007	0024	0014	7417	1111	----	1111	AE G T L Q
016054	+0320	0257	0242	4323	4324	7017	111-	----	1111	B.87858T Q
016055	+0324	0547	4326	4327	4330	2017	-1--	----	1111	E+8V8W8XPO
016056	+0330	0755	0110	0207	0005	3417	-111	----	1111	G AH8G E10
016057	+0334	0001	0005	4337	0326	7017	111-	----	1111	A E84CV Q
016060	+0340	0206	0125	0006	0006	7417	1111	----	1111	8FAU F F Q
016061	+0344	0002	4413	1003	0002	5417	1-11	----	1111	B9KHC B=Q
016062	+0350	0121	0011	0105	0105	7417	1111	----	1111	AQ IAEAE Q
016063	+0354	0041	0310	0005	0110	7417	1111	----	1111	6CM EAH Q
016064	+0360	0056	0014	0051	0003	7417	1111	----	1111	, L I C Q
016065	+0364	0465	0366	0470	0036	7417	1111	----	1111	D C D 3 Q
016066	+0370	4371	4372	4373	0247	4017	1----	----	1111	8 8 8 B+50
016067	+0374	0502	0003	0120	0743	7417	1111	----	1111	EB CAPG8 Q
016070	+0400	4401	5624	0316	0001	5417	1-11	----	1111	9A,TCN A=Q
016071	+0404	0001	0057	0002	0115	7417	1111	----	1111	A . BAM Q
016072	+0410	0006	0001	0643	4472	7017	111-	----	1111	F AF89 Q
016073	+0414	0067	0010	0053	1003	7417	1111	----	1111	H \$HC Q
016074	+0420	0044	0627	4423	4424	7017	111-	----	1111	9FW9S9T Q
016075	+0424	4425	0247	4427	0525	1017	--1-	----	1111	9UB+9WEUHQ
016076	+0430	0021	0001	4433	4434	7017	111-	----	1111	Q A9091 Q
016077	+0434	4435	4436	4437	0605	0017	----	----	1111	929394FE Q
016100	+0440	4441	4442	4443	4444	4017	1----	----	1111	9697989950
016101	+0444	0061	1137	0070	0022	3417	-111	----	1111	14 R10
016102	+0450	0072	0264	4453	0622	7017	111-	----	1111	B 9\$FR Q
016103	+0454	0052	0261	0002	0011	7417	1111	----	1111	JB 8 I Q
016104	+0460	0043	0001	0007	0112	7417	1111	----	1111	8 A CAJ Q
016105	+0464	0007	0243	0136	0075	7417	1111	----	1111	GB8A3 Q
016106	+0470	0047	0145	4475	4474	6417	11-1	----	1111	*A+9 9 Q
016107	+0474	0602	4510	0114	0252	1417	--11	----	1111	FB+HALBJLO
016110	+0500	0110	0145	0101	0101	7417	1111	----	1111	AHA+AAAA Q
016111	+0504	4505	4506	4507	0254	4017	1----	----	1111	*E+F+GB=50
016112	+0510	4531	0070	4513	0514	2017	-1--	----	1111	*Y +KELPO
016113	+0514	0043	0733	5637	0221	6417	11-1	----	1111	8GO,48Q Q

RA = MST,6,7,11,12,13,14.  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

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NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

016114 +0520 0114 0704 4523 1026 7017 111- ---- 1111 ALGD+SHV 0  
016115 +0524 0117 0024 0025 0633 7417 1111 ---- 1111 AD T UFO 0  
016116 +0530 0025 4660 0431 0205 5417 1-11 ---- 1111 U- DYBE=0  
016117 +0534 0573 0137 1051 4556 6417 11-1 ---- 1111 E A4H(+, 0  
016120 +0540 0013 0036 0334 0001 6417 11-1 ---- 1111 K 3C1 A 0  
016121 +0544 0001 0100 0311 0350 7417 1111 ---- 1111 AA CIC/ 0  
016122 +0550 4551 4552 4553 4554 4017 1--- ---- 1111 +(+)+++=50  
016123 +0554 0167 0332 4557 4560 2017 -1-- ---- 1111 A CZ+.+ PO  
016124 +0560 5633 4562 5021 0115 0417 ---1 ---- 1111 ,0+ /QAMDO  
016125 +0564 0025 4566 4567 4570 6017 11-- ---- 1111 U+ + + 0  
016126 +0570 4571 4572 4573 4574 0017 ---- ---- 1111 + + + + 0  
016127 +0574 0600 0505 0035 1156 3417 -111 ---- 1111 F EE 2I,10  
016130 +0600 0060 0404 4603 0115 7017 111- ---- 1111 DD-CAM 0  
016131 +0604 1032 0250 0025 0132 7417 1111 ---- 1111 HZB/ UAZ 0  
016132 +0610 0052 0055 0137 4773 7417 1111 ---- 1111 ) A4+ 0  
016133 +0614 0037 0054 0004 0052 7417 1111 ---- 1111 4 = D ) 0  
016134 +0620 0005 0032 0011 0027 7417 1111 ---- 1111 E Z I W 0  
016135 +0624 0007 0046 0045 0075 7417 1111 ---- 1111 G - + 0  
016136 +0630 0021 0016 0026 0115 7417 1111 ---- 1111 Q N VAM 0  
016137 +0634 0122 0013 4637 0075 7017 111- ---- 1111 AR K-4 0  
016140 +0640 4641 1001 0570 0171 5417 1-11 ---- 1111 -6HAE A =0  
016141 +0644 0242 0122 0234 0145 7417 1111 ---- 1111 B7ARB1A+ 0  
016142 +0650 0023 0100 0064 0657 7417 1111 ---- 1111 SA F. 0  
016143 +0654 0647 0106 0105 0002 7417 1111 ---- 1111 F\*AFAE B 0  
016144 +0660 5111 4662 0712 0012 2417 -1-1 ---- 1111 (I- GJ JTO  
016145 +0664 4665 4666 4667 4670 4017 1--- ---- 1111 - - - 50  
016146 +0670 4671 4672 4673 4674 0017 ---- ---- 1111 - - - 0  
016147 +0674 4675 4676 4677 0462 0017 ---- ---- 1111 - - - D 0  
016150 +0700 0466 4702 0637 0303 6417 11-1 ---- 1111 D \*BF4CC 0  
016151 +0704 0317 0321 4707 0210 7017 111- ---- 1111 COCQ+GBH 0  
016152 +0710 4711 4712 4713 4714 4017 1--- ---- 1111 \*I\*J\*K\*L50  
016153 +0714 4715 4716 4717 4720 0017 ---- ---- 1111 \*M\*N\*O\*P 0  
016154 +0720 4721 4722 4723 0526 0017 ---- ---- 1111 \*Q\*R\*S\*EV 0  
016155 +0724 1134 0545 0652 0776 7417 1111 ---- 1111 IIE+F)G 0  
016156 +0730 1031 0045 0155 4734 7417 1111 ---- 1111 HY +A \*1 0  
016157 +0734 0314 4736 4737 4740 2017 -1-- ---- 1111 CL\*3\*4\*5PO  
016160 +0740 0547 0534 0476 0132 3417 -111 ---- 1111 E\*E1D AZ10  
016161 +0744 4745 0603 4747 4750 5017 1-1- ---- 1111 \*\*FC\*\*\*//0  
016162 +0750 4751 4752 1122 0320 0417 ---1 ---- 1111 \*(\*)IRCPDO  
016163 +0754 0564 0541 4757 4760 7017 111- ---- 1111 E E6\*.\* 0  
016164 +0760 0031 0160 4763 4764 3017 -11- ---- 1111 YA \* \* XO  
016165 +0764 4765 4766 4767 0464 0017 ---- ---- 1111 \* \* \* D 0  
016166 +0770 0350 0124 0267 1125 7017 111- ---- 1111 C/ATB IU 0  
016167 +0774 0001 0012 0721 4561 7417 1111 ---- 1111 A JGQ+ 0  
016170 +1000 0457 0164 0162 5004 4417 1--1 ---- 1111 D.A A /D90  
016171 +1004 5005 5006 5062 0222 0417 ---1 ---- 1111 /E/F/ BRDO  
016172 +1010 0150 5012 5013 5014 6017 11-- ---- 1111 A//J/K/L 0  
016173 +1014 5015 0372 0051 5025 1417 --11 ---- 1111 /MC (/ULO  
016174 +1020 5024 5027 5632 0721 5417 1-11 ---- 1111 /T/W,ZGO=0  
016175 +1024 5026 4536 0332 5631 0017 ---- ---- 1111 /V+3CZ,Y 0  
016176 +1030 0064 5063 5033 5034 7017 111- ---- 1111 / /O/I 0  
016177 +1034 5035 5036 5037 5040 0017 ---- ---- 1111 /2/3/4/5 0  
016200 +1040 5041 5042 5043 5044 0017 ---- ---- 1111 /6/7/8/9 0  
016201 +1044 5045 5046 5047 5050 0017 ---- ---- 1111 /+/-/+// 0  
016202 +1050 5051 5052 5053 0064 0017 ---- ---- 1111 /I/I/I 0  
016203 +1054 0022 0032 5057 5060 7017 111- ---- 1111 R Z// 0  
016204 +1060 0153 0350 0101 0663 2017 -1-- ---- 1111 A\$C/AAF PO

RA = MST,6,7,11,12,13,14.  
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016205	+1064	1134	5002	0227	5070	7417	1111	----	1111	I1/BBW/ 0
016206	+1070	5071	0053	0017	0630	1417	--11	----	1111	/ \$ OFXLO
016207	+1074	5075	5076	5077	5100	4017	1----	----	1111	/ / / ( 50
016210	+1100	5101	5102	5103	5104	0017	----	----	1111	(A18(C10 0
016211	+1104	5105	5106	5107	5110	0017	----	----	1111	(E1F1G1H 0
016212	+1110	0202	5123	0702	0106	1417	--11	----	1111	BB1SGBAFLO
016213	+1114	5115	0407	0363	0363	5417	1-11	----	1111	(MDGC C =0
016214	+1120	0746	0002	0002	5125	7017	111-	----	1111	G- B 81U 0
016215	+1124	0023	5216	0003	5130	5417	1-11	----	1111	S1N C(X=0
016216	+1130	5131	5132	5133	5134	0017	----	----	1111	(Y1Z1011 0
016217	+1134	5135	5136	5137	5140	0017	----	----	1111	(2131415 0
016220	+1140	5141	5142	5143	5144	0017	----	----	1111	(6171819 0
016221	+1144	5145	5146	5147	5150	0017	----	----	1111	(+1-(+1/ 0
016222	+1150	5151	5152	5153	5154	0017	----	----	1111	(1111111 0
016223	+1154	5155	5156	5157	0240	0017	----	----	1111	( 1,1.85 0
016224	+1160	0075	0313	0206	0367	7417	1111	----	1111	CKBFC 0
016225	+1164	0156	0002	0136	0001	7417	1111	----	1111	A, BA3 A 0
016226	+1170	0013	0165	0140	0003	7417	1111	----	1111	KA' A5 C 0
016227	+1174	0165	5176	0654	0002	6417	11-1	----	1111	A ( F= B 0
016230	+1200	0055	5202	5203	5204	6017	11--	----	1111	(B1C1D 0
016231	+1204	0566	0422	0557	5210	3417	-111	----	1111	E DRE.1H10
016232	+1210	5211	5212	0565	0106	0417	---1	----	1111	111JE AFDO
016233	+1214	0002	0010	5314	0261	6417	11-1	----	1111	B H1LB 0
016234	+1220	0261	5222	5223	5224	6017	11--	----	1111	B 1R1S1T 0
016235	+1224	5225	5226	5227	5230	0017	----	----	1111	(U1V1W1X 0
016236	+1230	5231	5232	5233	5234	0017	----	----	1111	(Y1Z1011 0
016237	+1234	5235	5236	5237	5240	0017	----	----	1111	(2131415 0
016240	+1240	5241	5242	5243	0400	0017	----	----	1111	(61718D 0
016241	+1244	0210	0027	5247	5250	7017	111-	----	1111	BH W1*)/ 0
016242	+1250	5251	5252	5253	5254	0017	----	----	1111	(1111111 0
016243	+1254	5255	5256	5257	5260	0017	----	----	1111	( 1,1.1.1 0
016244	+1260	5261	0462	5263	0162	1017	--1-	----	1111	( D ) A HQ
016245	+1264	0171	0027	5267	5270	7017	111-	----	1111	A W1 ) 0
016246	+1270	5271	5272	0102	5274	0417	---1	----	1111	( ) 1 AB1 DO
016247	+1274	0064	0103	0076	0123	3417	-111	----	1111	AC AS10
016250	+1300	5301	0407	0023	0113	5417	1-11	----	1111	\$ADG SAK=0
016251	+1304	0016	0013	0760	0377	7417	1111	----	1111	N KG C 0
016252	+1310	0131	0132	0473	0024	7417	1111	----	1111	AYAZD T 0
016253	+1314	5377	0031	0676	0054	3417	-111	----	1111	\$ YF =10
016254	+1320	0061	5322	0632	0237	6417	11-1	----	1111	\$RFZB4 0
016255	+1324	0131	0042	0527	0013	7417	1111	----	1111	AY 7EW K 0
016256	+1330	0032	0050	0371	0453	7417	1111	----	1111	Z /C D\$ 0
016257	+1334	0161	0021	0046	0151	7417	1111	----	1111	A Q -A1 0
016260	+1340	0043	0046	0027	0006	7417	1111	----	1111	B - W F 0
016261	+1344	0121	0006	5347	0133	7017	111-	----	1111	AQ F\$+A0 0
016262	+1350	0042	0010	0337	0017	7417	1111	----	1111	7 HC4 0 0
016263	+1354	0176	5356	5357	5360	6017	11--	----	1111	A \$, \$, \$ 0
016264	+1360	5361	1032	0111	0011	1417	--11	----	1111	\$ HZA1 IL0
016265	+1364	0623	0025	0105	0107	7417	1111	----	1111	FS UAEAG 0
016266	+1370	0175	0246	0305	0306	7417	1111	----	1111	A B-CECF 0
016267	+1374	0210	0301	0301	5423	7017	111-	----	1111	BHCACA=S 0
016270	+1400	0030	0011	0003	0200	7417	1111	----	1111	X 1 CB 0
016271	+1404	0064	0075	0770	0376	7417	1111	----	1111	G C 0
016272	+1410	0772	0113	5413	0437	7017	111-	----	1111	G AK=KD4 0
016273	+1414	0022	0121	0572	0363	7417	1111	----	1111	RAQE C 0
016274	+1420	5421	1121	0457	5463	5017	1-1-	----	1111	=QIQD.= /U
016275	+1424	5425	5426	0726	1104	4417	1--1	----	1111	=U=VGV1D90

RA = MST,6,7,11,12,13,14.

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016276	+1430	0140	0164	0400	5434	7417	1111	----	1111	A5A D =1 0
016277	+1434	5435	5436	0135	0031	0417	----	1111	1111	=2=3A2 Y00
016300	+1440	5441	5442	0476	5444	4417	1---	1111	1111	=6=7D =990
016301	+1444	5445	0724	0261	1057	1417	--11	1111	1111	=+GTB H.L0
016302	+1450	0155	0210	0524	0213	7417	1111	----	1111	A BHETBK 0
016303	+1454	0016	5456	0264	0103	6417	11-1	----	1111	N=,B AC 0
016304	+1460	0043	0125	0023	5606	7017	111-	----	1111	8AU S,F 0
016305	+1464	0233	0215	5467	0552	7017	111-	----	1111	80BM= E) 0
016306	+1470	5471	0406	5473	0621	5017	1-1-	----	1111	= DF= FQ/O
016307	+1474	0023	0102	0025	0131	7417	1111	----	1111	SAB UAY 0
016310	+1500	0025	0103	0065	0064	7417	1111	----	1111	UAC 0
016311	+1504	0034	0035	5507	0142	7017	111-	----	1111	1 2 GA7 0
016312	+1510	0261	5572	0001	5514	7417	1111	----	1111	B A L 0
016313	+1514	0536	0013	0245	5520	3417	-111	----	1111	E3 KB+ P10
016314	+1520	5521	5522	5523	5524	0017	----	1111	1111	Q R S T 0
016315	+1524	5525	5526	4516	0351	0417	----	1111	1111	U V+NC(00
016316	+1530	0175	0145	0221	0171	7417	1111	----	1111	A A+BQA 0
016317	+1534	0425	0143	0203	0203	7417	1111	----	1111	DUA8BCBC 0
016320	+1540	0036	5542	0216	0002	6417	11-1	----	1111	3 7BN B 0
016321	+1544	0001	5546	0456	0036	6417	11-1	----	1111	A -D, 3 0
016322	+1550	5551	5552	5553	5554	4017	1---	1111	1111	( ) % =50
016323	+1554	5555	5556	5557	5560	0017	----	1111	1111	, . 0
016324	+1560	5561	5562	5563	0526	0017	----	1111	1111	EV 0
016325	+1564	5566	0063	0120	0236	6417	11-1	----	1111	APB3 0
016326	+1570	1077	5574	5615	0237	6417	11-1	----	1111	H ,MB4 0
016327	+1574	5575	5602	5577	0264	1017	--1-	1111	1111	,B B HO
016330	+1600	0112	0021	5603	5604	6017	11--	1111	1111	AJ Q,C,D 0
016331	+1604	5605	0516	6112	0160	0417	----	1111	1111	,EEN JA DO
016332	+1610	0220	5612	0630	0543	6417	11-1	1111	1111	BP,JFXE8 0
016333	+1614	0065	5616	5617	0643	4017	1---	1111	1111	,N,DF850
016334	+1620	0133	0001	5623	0060	7017	111-	1111	1111	AO A,S 0
016335	+1624	0022	0234	0013	0236	3417	-111	1111	1111	RB1 KB310
016336	+1630	0114	4512	1104	5635	4017	1---	1111	1111	AL+J10,250
016337	+1634	0024	5636	0413	5640	4017	1---	1111	1111	T,3DK,550
016340	+1640	5641	5651	0063	5644	1417	--11	1111	1111	,6,( ,9L0
016341	+1644	0724	0060	5647	0146	3017	-11-	1111	1111	GT ,*A-X0
016342	+1650	0061	5657	0065	1066	5417	1-11	1111	1111	,. H =0
016343	+1654	0003	0026	0003	5660	7017	111-	1111	1111	C V C, 0
016344	+1660	5661	0316	0507	5664	1417	--11	1111	1111	, CNEG, L0
016345	+1664	5665	5717	0517	5673	1417	--11	1111	1111	, .0EO, L0
016346	+1670	4542	0510	0213	5677	3017	-11-	1111	1111	+7EHBK, X0
016347	+1674	0222	0251	0224	5701	7017	111-	1111	1111	8RB(BT.A 0
016350	+1700	0224	0314	5703	0407	5017	1-1-	1111	1111	BTCL.CDC/O
016351	+1704	0031	5706	0407	5710	6417	11-1	1111	1111	Y.FDG.H 0
016352	+1710	0407	0267	0165	5714	3417	-111	1111	1111	DGB A .L10
016353	+1714	0420	5716	0420	5720	2017	-1--	1111	1111	DP.NDP.PPO
016354	+1720	0364	0675	0030	0033	3417	-111	1111	1111	C F X 010
016355	+1724	0620	0110	0061	0002	7417	1111	1111	1111	FPAH B 0
016356	+1730	0045	0151	0121	0127	7417	1111	1111	1111	+A(AQAW 0
016357	+1734	5735	0675	0256	0020	5417	1-11	1111	1111	.2F B, P=0
016360	+1740	0013	0651	0304	0347	7417	1111	1111	1111	KF(CDC+ 0
016361	+1744	0063	5746	0145	0213	6417	11-1	1111	1111	.-A+BK 0
016362	+1750	0102	0003	0224	0023	7417	1111	1111	1111	AB CBT S 0
016363	+1754	0227	0074	0115	0033	7417	1111	1111	1111	BW AM 0 0
016364	+1760	0051	0140	0541	0023	7417	1111	1111	1111	(A5E6 S 0
016365	+1764	0040	0640	0201	5770	7417	1111	1111	1111	5F5BA. 0
016366	+1770	0132	0023	0114	0054	3417	-111	1111	1111	AZ SAL =10

KA = MST,6,7,11,12,13,14.  
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NOS 1.4 STUDY DUMP - MASS STORAGE

016367 +1774 0115 1122 0113 0063 7417 1111 ---- 1111 AMIRAK 0  
016370 +2000 0003 0064 0124 6004 7417 1111 ---- 1111 C AT D 0  
016371 +2004 0050 0126 0012 0012 3417 -111 ---- 1111 /AV J J10  
016372 +2010 5001 0546 0132 0107 7417 1111 ---- 1111 /AE-AZAG 0  
016373 +2014 0071 0104 0221 0007 7417 1111 ---- 1111 ADBQ G 0  
016374 +2020 0066 0023 0042 0160 7417 1111 ---- 1111 S 7A 0  
016375 +2024 0023 0101 0135 0044 7417 1111 ---- 1111 SAAA2 9 0  
016376 +2030 0115 0132 0553 0224 7417 1111 ---- 1111 AMAZE1BT 0  
016377 +2034 0030 0014 0124 0011 7417 1111 ---- 1111 X LAT I 0  
016400 +2040 0337 0012 0026 0222 7417 1111 ---- 1111 C4 J VBR 0  
016401 +2044 6045 0644 0640 6050 5417 1-11 ---- 1111 \*F9F5 /-0  
016402 +2050 0175 0504 0017 0015 3417 -111 ---- 1111 A ED 0 M10  
016403 +2054 0100 0041 0025 0105 7417 1111 ---- 1111 A 6 UAE 0  
016404 +2060 1101 0022 0477 6064 7417 1111 ---- 1111 IA RD 0  
016405 +2064 0007 6066 6067 6070 2017 -1-- ---- 1111 G PO  
016406 +2070 6071 6072 6073 6074 0017 ---- ---- 1111 0  
016407 +2074 6122 0506 0506 0507 3417 -111 ---- 1111 REFEFEG10  
016410 +2100 6101 0663 0220 0023 5417 1-11 ---- 1111 AF BP S=0  
016411 +2104 0023 0007 0504 0052 7417 1111 ---- 1111 S GED J 0  
016412 +2110 0506 0011 5670 0061 6417 11-1 ---- 1111 EF I, 0  
016413 +2114 0042 0034 0147 0136 7417 1111 ---- 1111 7 1A+A3 0  
016414 +2120 0447 0110 0412 0110 6417 11-1 ---- 1111 0\*AHDJAH 0  
016415 +2124 0000 0000 0041 0163 1403 --11 ---- --11 6A LC  
016416 +2130 0521 0011 0011 6134 7417 1111 ---- 1111 EQ I I 1 0  
016417 +2134 6135 6136 6137 6140 0017 ---- ---- 1111 2 3 4 5 0  
016420 +2140 6141 6142 6143 6144 0017 ---- ---- 1111 6 7 8 9 0  
016421 +2144 6145 6146 0173 0620 0417 ---1 ---- 1111 + -A FPO0  
016422 +2150 0055 0776 0000 0000 6014 11-- ---- 11-- G L  
016423 +2154 0000 0000 0000 0000 0000 ---- ---- ----

016634 +3220 3777 3777 3777 3777 0017 ---- ---- 1111 4 4 4 4 0

#### EQUIPMENT 13 - MASS STORAGE TABLE

NUMBER OF TRACKS TDGL 016640 3222 ZR F+7-JT  
RESERVED 0000  
LENGTH OF TRT 0645  
FIRST AVAIL TRACK PTR 4246  
NUM AVAILABLE TRACKS 1224  
FLAGS / INTERLOCK ACGI 016641 0000 I, A  
DA ECS CHAIN FIRST TRACK 0000  
DIRECT ACCESS FILE CNT 1156  
FIRST TRACK IGFT 0000  
REDEFINITION STATUSES 01  
PF UTILITY INTERLOCK 00  
LCS ADDRESS MST/TRT SDGL 016642 00000000  
ECS UPDATE COUNT 0000000000  
MACHINE MASK INTERLOCK 00  
FIRST TRACK IAPF ALGL 016643 4012 5J5 5K H  
LABEL TRACK 4000  
FIRST TRACK PERMITS 4013  
NUMBER CATALOG TRACKS 0010  
FIRST TRACK DAT 0000  
FAMILY OR PACK NAME PFGL 016644 16172303142310 NOSCLSH8  
DEVICE NUMBER 43  
RESERVED 00  
REL UNIT MULTIUNIT DEV 0

ALLOCATION FLAGS DILL 016653 0000 \*\* F  
CH 2 ACCESS 7154 FLAG 47  
CH 1 ACCESS 7154 FLAG 45  
CH 4 ACCESS 7154 FLAG 00  
CH 3 ACCESS 7154 FLAG 00  
BIT 21 IS MAINTENANCE MODE 0  
MEMORY TYPE - 3 BIT VALUE 0  
CPU TYPE - 3 BIT VALUE 0  
PP PATH TYPE - 3 BIT VALUE 0  
RESERVED 00  
ALGORITHM INDEX 06  
DAYFILE TRACK DULL 016654 0000 AA  
ACCOUNT FILE TRACK 0000  
ERRLOG TRACK 0000  
SYSTEM TABLE TRACK 0000  
FAMILY IDLE STATUS 0  
FAMILY ACTIVITY COUNT 101  
LOCAL STATUS FLAGS STILL 016655 0004 D 62 M A  
RESERVED 00  
ERROR STATUS 00  
MACHINE ID 4135  
CURRENT USER COUNT DAF 0015  
NEXT EQUIPMENT 00

RA = MST,6,7,11,12,13,14. EXPRESS 11 DSDI - V2.0 79/10/30. 10.59.52. PAGE 27  
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NUM UNIT MULTIUNIT DEV 0 ORIGINAL NUMBER UNITS 0  
USER NUM PRIVATE PACK PUGL 016645 00000000000000 /B LOCAL STATUS 1  
DEVICE MASKS 500200 REDEF IN PROG/NULL EQ DOLL 016656 0 6  
FLAGS AND DAT INDEX MDGL 016646 1000 H J DI J RESERVED 0  
FT-HT FLAG \*/\* SECTOR LIMIT 1200 NUMBER PHYSICAL UNITS - 1 00  
DRIVER NAME 0411 EQUIPMENT UNIT LIST 00000000000000041  
O RESERVED FOR PPR USE 0000 LOCAL INSTAL AREA ISLL 016657 000000000000000000  
SECTOR LIMIT 1200  
RESERVED R1GL 016647 00000000000000000000  
GLOBAL INSTAL AREA ISGL 016650 00000000000000000000  
I2GL 016651 0000000000000000000000  
ACTIVITY COUNT DALL 016652 0000 , -  
UNIT INTERLOCKS 0000  
CURRENT POSITION 5646  
NEXT BEST POSITION 7777  
RESERVED 0000

TRACK RESERVATION TABLE

016660	+0000	4001	4002	4003	4004	4017	1---	----	1111	5A5B5C5D50
016661	+0004	4005	4006	4007	4010	0017	----	----	1111	5E5F5G5H 0
016662	+0010	4011	0000	4052	0226	1417	--11	----	1111	5I 5J8VLO
016663	+0014	0044	0040	0040	4020	7417	1111	----	1111	9 5 55P 0
016664	+0020	4021	0144	0112	4024	1417	--11	----	1111	5QA9AJ5TLO
016665	+0024	4025	0145	4027	4030	1017	--1-	----	1111	5UA+5W5XHO
016666	+0030	0514	0157	0161	0166	3417	-111	----	1111	ELA.A A 10
016667	+0034	4035	0613	4037	0603	5017	1-1-	----	1111	52FK54FC/O
016670	+0040	0042	0202	0067	0157	7417	1111	----	1111	78B A. 0
016671	+0044	0450	4047	4214	5134	7017	111-	----	1111	D/5*7L(1 0
016672	+0050	0450	0114	4053	4076	6017	11--	----	1111	D/AL5*5 0
016673	+0054	0101	0104	0207	0055	7417	1111	----	1111	AAADBG 0
016674	+0060	0174	0176	0100	0105	7417	1111	----	1111	A A A AE 0
016675	+0064	0127	0067	0131	4070	7417	1111	----	1111	AW AY5 0
016676	+0070	0054	0132	0133	0135	3417	-111	----	1111	=AZA0A210
016677	+0074	0027	0074	4115	4100	6417	11-1	----	1111	W 6M6 0
016700	+0100	0216	0532	0246	0563	3417	-111	----	1111	BNEZB-E 10
016701	+0104	0776	0001	0112	0026	7417	1111	----	1111	G AAJ V 0
016702	+0110	0003	0003	0003	0233	7417	1111	----	1111	C C CBO 0
016703	+0114	0162	4145	0253	0017	5417	1-11	----	1111	A 6+8\$ 0=0
016704	+0120	0066	0070	0127	0103	7417	1111	----	1111	AWAC 0
016705	+0124	0006	0002	0522	0101	7417	1111	----	1111	F BERA 0
016706	+0130	0002	1027	1066	0126	7417	1111	----	1111	BHWH AV 0
016707	+0134	0136	0014	0107	0724	7417	1111	----	1111	A3 LAGGT 0
016710	+0140	0230	0360	0004	0126	7417	1111	----	1111	BXC DAV 0
016711	+0144	0075	4216	0007	0256	5417	1-11	----	1111	7N GB,-0
016712	+0150	0002	0207	0133	0376	7417	1111	----	1111	8BGAOC 0
016713	+0154	0007	4156	4157	4160	6017	11--	----	1111	G6,6.6 0
016714	+0160	4161	4162	4163	4164	0017	----	----	1111	6 6 6 6 0
016715	+0164	4165	4166	4167	4170	0017	----	----	1111	6 6 6 6 0
016716	+0170	4171	4172	4173	4174	0017	----	----	1111	6 6 6 6 0
016717	+0174	4175	0620	4177	0247	1017	--1-	----	1111	6 FP6 B*HO
016720	+0200	4201	0567	0246	0175	5417	1-11	----	1111	7AE B-A =0
016721	+0204	0273	0126	0121	0401	7417	1111	----	1111	B AVAQDA 0
016722	+0210	0120	0126	0324	0262	7017	111-	----	1111	APAVCTB 0
016723	+0214	4215	4220	4350	4213	0417	----	----	1111	7M7P8/7KDU
016724	+0220	4544	0204	4223	4224	3017	-11-	----	1111	+9B07S7TX0
016725	+0224	4225	4226	4227	4230	0017	----	----	1111	7U7V7W7X 0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
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016726	+0230	0625	0230	0200	0413	3417	-111	----	1111	F08XB DK10
016727	+0234	4235	4236	4237	4240	4017	1---	----	1111	7273747550
016730	+0240	4241	4242	4243	4244	0017	----	----	1111	76777879 0
016731	+0244	4245	4246	4247	4250	0017	----	----	1111	7+7-7*7/ 0
016732	+0250	4251	4252	4253	4254	0017	----	----	1111	7171717- 0
016733	+0254	4255	4256	4257	4260	0017	----	----	1111	7 7,7.7 0
016734	+0260	4261	4262	4263	4264	0017	----	----	1111	7 7 7 7 0
016735	+0264	4265	4266	0554	1150	0417	----	----	1111	7 7 E-1/DO
016736	+0270	0277	0270	4273	4274	7017	111-	----	1111	8 8 7 7 0
016737	+0274	4275	0314	4277	4300	1017	--1-	----	1111	7 CL7 8 HO
016740	+0300	4301	0314	0175	0713	1417	--11	----	1111	8ACLA GKLO
016741	+0304	4305	4306	4307	4310	4017	1---	----	1111	8E8F8G8H50
016742	+0310	4311	4312	4313	4314	0017	----	----	1111	8I8J8K8L 0
016743	+0314	0270	4316	4317	4320	2017	-1--	----	1111	8 8N808PP0
016744	+0320	4321	4322	4323	4324	0017	----	----	1111	8Q8R8S8T 0
016745	+0324	4325	4326	4327	4330	0017	----	----	1111	8U8V8W8X 0
016746	+0330	4331	4332	4333	4334	0017	----	----	1111	8Y8Z8081 0
016747	+0334	4335	4336	4337	4340	0017	----	----	1111	82838485 0
016750	+0340	4341	4342	4343	4344	0017	----	----	1111	86878889 0
016751	+0344	4345	4346	4347	0554	0017	----	----	1111	8+8-8+E- 0
016752	+0350	4433	0340	0242	4354	3417	-111	----	1111	90C5878-10
016753	+0354	0567	4356	0567	4360	2417	-1-1	----	1111	E 8,E 8 TO
016754	+0360	4361	0535	4363	0567	1017	--1-	----	1111	8 E28 E HO
016755	+0364	4365	4366	0525	0045	4417	1--1	----	1111	8 8 EU +90
016756	+0370	1035	0132	4373	0567	7017	111-	----	1111	H2A28 E 0
016757	+0374	4375	0624	4377	0753	5017	1-1-	----	1111	8 FT8 G5/0
016760	+0400	4401	0753	4403	0731	5017	1-1-	----	1111	9AG9CGY/0
016761	+0404	0176	0110	0142	0172	7417	1111	----	1111	A AHA7A 0
016762	+0410	0564	1105	4413	0671	7017	111-	----	1111	E IE9KF 0
016763	+0414	4416	3777	0570	3777	4017	1---	----	1111	9N4 E 4 50
016764	+0420	4421	4422	0514	1076	4417	1--1	----	1111	9Q9RELH 90
016765	+0424	0704	0711	0354	4430	7417	1111	----	1111	GDGIC-9X 0
016766	+0430	0420	0117	0564	4463	3017	-11-	----	1111	DPADE 9 XO
016767	+0434	0073	0151	0067	0216	7417	1111	----	1111	AI BN 0
016770	+0440	0430	0013	0150	0161	7417	1111	----	1111	DX KA/A 0
016771	+0444	0020	0035	4447	0054	7017	111-	----	1111	P 29* = 0
016772	+0450	4451	0665	4453	0665	5017	1-1-	----	1111	9IF 9IF /0
016773	+0454	0001	0247	0001	0277	7417	1111	----	1111	AB* AB 0
016774	+0460	4461	0641	0300	4626	5017	1-1-	----	1111	9 F6C -V/0
016775	+0464	4465	4466	4467	4470	4017	1---	----	1111	9 9 9 9 50
016776	+0470	4471	4472	4473	4474	0017	----	----	1111	9 9 9 9 0
016777	+0474	4475	4476	4477	4500	0017	----	----	1111	9 9 9 + 0
017000	+0500	0227	0010	0060	4504	3417	-111	----	1111	BW H +D10
017001	+0504	0106	0332	0773	1017	3417	-111	----	1111	AFCZG HO10
017002	+0510	1156	0171	0132	0451	7417	1111	----	1111	I,A AZD1 0
017003	+0514	0237	0473	0336	0424	7417	1111	----	1111	840 C3DT 0
017004	+0520	0433	0206	0212	0432	7417	1111	----	1111	DOBFBJDZ 0
017005	+0524	0002	0212	0115	0207	7417	1111	----	1111	BBJAMBG 0
017006	+0530	0076	0004	0036	0647	7417	1111	----	1111	D 3F+ 0
017007	+0534	0001	0160	0001	0106	7417	1111	----	1111	AA AAF 0
017010	+0540	0001	0214	0230	4702	7017	111-	----	1111	ABLBX+8 0
017011	+0544	4545	4546	4575	4550	0417	----	----	1111	+++-+ +/DO
017012	+0550	4551	4552	4553	4554	0017	----	----	1111	+(+)+*+ 0
017013	+0554	4555	4556	4557	1177	0017	----	----	1111	+ +,+ .1 0
017014	+0560	4561	0754	0104	4564	5417	1-11	----	1111	+ G-AD+ =0
017015	+0564	4565	4566	4567	4570	0017	----	----	1111	+ + + + 0
017016	+0570	4571	4572	4573	4574	0017	----	----	1111	+ + + + 0

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017017	+0574	0101	4605	4577	0054	1017	--1-	----	1111	AA-E+ =HO
017020	+0600	0522	0027	0770	1107	7417	1111	----	1111	ER WG IG O
017021	+0604	0771	4606	4607	4610	4017	1----	----	1111	G -F-G-H50
017022	+0610	0472	0267	0042	0047	3417	-111	----	1111	D R 7 *10
017023	+0614	0337	4665	0360	0522	5417	1-11	----	1111	C4- C ER=O
017024	+0620	0771	0155	4623	0754	7017	111-	----	1111	G A -SG= O
017025	+0624	1107	0127	4661	4630	6417	11-1	----	1111	IGAW- -X O
017026	+0630	4631	0651	0140	0404	1417	--11	----	1111	-YF(A5DDL0
017027	+0634	0152	0054	0136	0133	7417	1111	----	1111	A) -A3AO O
017030	+0640	0133	0140	0723	0053	7417	1111	----	1111	AOA5GS \$ O
017031	+0644	0130	0315	0704	0131	7417	1111	----	1111	AXCMGDAY O
017032	+0650	0126	0212	0075	0144	7417	1111	----	1111	AVBJ A9 O
017033	+0654	0060	0146	0532	0160	7417	1111	----	1111	A-EZA O
017034	+0660	0056	4723	0172	1011	5417	1-11	----	1111	,*SA HI=O
017035	+0664	4615	4666	4667	4670	4017	1----	----	1111	-M- - - 50
017036	+0670	4671	4672	4673	4674	0017	----	----	1111	- - - - O
017037	+0674	4675	4676	4677	4700	0017	----	----	1111	- - - * O
017040	+0700	4701	0440	0275	4704	0417	---1	----	1111	*AD5B *DDO
017041	+0704	4705	4706	4707	4710	0017	----	----	1111	*E*F*G*H O
017042	+0710	0735	4712	4713	4714	2017	-1--	----	1111	G2*J*K*LPO
017043	+0714	4715	4716	1102	0126	0417	---1	----	1111	*M*NIBAVDO
017044	+0720	0417	0476	0160	4776	7017	111-	----	1111	DDO A * O
017045	+0724	0010	4726	4727	4730	6017	11--	----	1111	H*V*W*X O
017046	+0730	0147	0210	0121	0514	3417	-111	----	1111	A*SHAQEL10
017047	+0734	0031	0053	0001	4740	7417	1111	----	1111	Y \$ A*5 O
017050	+0740	4741	4742	4743	4744	0017	----	----	1111	*6*7*8*9 O
017051	+0744	0304	0343	0126	0014	3417	-111	----	1111	CDC8AV L10
017052	+0750	0001	0001	0001	4754	7417	1111	----	1111	A A A*= O
017053	+0754	4755	4756	4757	0577	0017	----	----	1111	* *,*.E O
017054	+0760	0001	4762	4763	4764	6017	11--	----	1111	A* * * O
017055	+0764	4765	4766	4767	1020	0017	----	----	1111	* * * HP O
017056	+0770	0434	4772	0437	1171	6417	11-1	----	1111	D1* D4I O
017057	+0774	4775	0670	5224	0673	4417	1--1	----	1111	* F )TF 90
017060	+1000	5001	0663	0036	0036	5417	1-11	----	1111	/AF 3 3=O
017061	+1004	0026	0013	0117	5010	7417	1111	----	1111	V KAO/H O
017062	+1010	1144	5012	5013	0722	2017	-1--	----	1111	I9/J/KGRPO
017063	+1014	0145	0673	5017	0671	7017	111-	----	1111	A+F /OF O
017064	+1020	0673	0673	0004	0710	7417	1111	----	1111	F F DGH O
017065	+1024	0025	5026	0664	0131	6417	11-1	----	1111	U/VF AY O
017066	+1030	5031	0663	0077	0673	5417	1-11	----	1111	/YF F =O
017067	+1034	5035	5036	0722	0125	4417	1--1	----	1111	/2/3GRAU90
017070	+1040	0005	0062	0673	0673	7417	1111	----	1111	E F F O
017071	+1044	0673	0673	0050	5050	7417	1111	----	1111	F F /// O
017072	+1050	0663	0014	0673	0673	3417	-111	----	1111	F LF F 10
017073	+1054	5055	0666	0673	5060	5417	1-11	----	1111	/ F F / =O
017074	+1060	0667	5062	0667	0673	2417	-1-1	----	1111	F / F F TO
017075	+1064	0673	0673	0673	5070	7417	1111	----	1111	F F F / O
017076	+1070	0633	5072	0633	0010	2417	-1-1	----	1111	FO/ FO HTO
017077	+1074	0121	5076	0652	5100	6417	11-1	----	1111	AQ/ F)( O
017100	+1100	0661	5102	0032	5104	2417	-1-1	----	1111	F (B 2(OTO
017101	+1104	5105	5106	5107	5110	0017	----	----	1111	(E(F(G(H O
017102	+1110	5111	5112	5113	5114	0017	----	----	1111	(I(J(K(L O
017103	+1114	5115	5116	5117	5120	0017	----	----	1111	(M(N(O(P O
017104	+1120	5121	5122	0226	5124	0417	---1	----	1111	(Q(RBV(TOO
017105	+1124	5125	0724	0673	0001	1417	--11	----	1111	(UGTF AL0
017106	+1130	5131	5132	0725	0736	4417	1--1	----	1111	(Y(ZGUC390
017107	+1134	0053	0673	0673	0041	3417	-111	----	1111	\$F F 610

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017110	+1140	5141	5142	0567	5144	4417	1--1	----	1111	(6(7E (990
017111	+1144	5145	0711	0322	0673	1417	--11	----	1111	(+GICRF LO
017112	+1150	5151	5152	5153	5154	4017	1---	----	1111	((((((\$(-50
017113	+1154	5155	5156	5157	5160	0017	----	----	1111	((,(( ( 0
017114	+1160	5161	5162	5163	5164	0017	----	----	1111	(( ( ( ( 0
017115	+1164	5165	5166	5167	5170	0017	----	----	1111	(( ( ( ( 0
017116	+1170	5171	5172	5173	5174	0017	----	----	1111	(( ( ( ( 0
017117	+1174	5175	5176	5177	5200	0017	----	----	1111	(( ( ) 0
017120	+1200	5201	5202	5203	5204	0017	----	----	1111	(A)B)C)D 0
017121	+1204	5205	5206	5207	5210	0017	----	----	1111	(E)F)G)H 0
017122	+1210	5211	5212	5213	5214	0017	----	----	1111	(I)J)K)L 0
017123	+1214	5215	5216	1123	0751	0417	---1	----	1111	(M)N)O)P)Q 0
017124	+1220	0054	0220	0130	0673	7417	1111	----	1111	=BPAXF 0
017125	+1224	5251	0133	0164	0261	3417	-111	----	1111	(A)OA B 10
017126	+1230	0032	0000	0000	0000	4010	1---	----	1---	Z 5H
017127	+1234	0000	1137	0314	5455	3407	-111	----	-111	I4CL= 1G
017130	+1240	5241	0645	0235	0377	5417	1-11	----	1111	(6F+B2C =0
017131	+1244	0076	0102	0077	0350	7417	1111	----	1111	AB C/ 0
017132	+1250	0001	5252	5260	0024	4417	1--1	----	1111	A))) T90
017133	+1254	0154	0122	0011	0002	7417	1111	----	1111	A=AR 1 B 0
017134	+1260	5334	0154	0650	0111	3417	-111	----	1111	\$1A=F/AT10
017135	+1264	0217	0112	0115	0220	7417	1111	----	1111	BOAJAHBP 0
017136	+1270	0121	0116	0115	0120	7417	1111	----	1111	AQANAMAP 0
017137	+1274	0122	0126	0125	0126	7417	1111	----	1111	ARAVAUAV 0
017140	+1300	0135	0133	0136	0136	7417	1111	----	1111	A2A0A3A3 0
017141	+1304	1163	5306	0725	0134	6417	11-1	----	1111	I \$FGUA1 0
017142	+1310	0027	0136	0137	0203	7417	1111	----	1111	WA3A4BC 0
017143	+1314	0031	0203	0203	0203	7417	1111	----	1111	Y8CBCBC 0
017144	+1320	0136	0137	0141	0143	7417	1111	----	1111	A3A4A6A8 0
017145	+1324	0144	5326	0540	1114	6417	11-1	----	1111	A9\$VE5IL 0
017146	+1330	0174	0357	0054	0027	7417	1111	----	1111	A C. = W 0
017147	+1334	5402	5336	0224	0054	2417	-1-1	----	1111	=B\$3BT =T0
017150	+1340	0570	0273	5343	5344	7017	111-	----	1111	E B \$8\$9 0
017151	+1344	5345	5346	5347	5350	0017	----	----	1111	\$+\$-\$+\$ / 0
017152	+1350	0337	0672	0653	0273	3417	-111	----	1111	C4F F\$B 10
017153	+1354	0211	0106	0056	0041	7417	1111	----	1111	B1AF , 6 0
017154	+1360	1004	5362	5363	0760	6017	11--	----	1111	HD\$ \$ G 0
017155	+1364	0205	0272	5367	0467	7017	111-	----	1111	BE8 \$ 0 0
017156	+1370	5371	0467	5373	5374	5017	1-1-	----	1111	\$ D \$ \$ /0
017157	+1374	5375	5376	5377	5400	0017	----	----	1111	\$ \$ \$ = 0
017160	+1400	5401	0555	5457	0147	0417	---1	----	1111	=AE =.A*DO
017161	+1404	0065	0110	0223	0105	7417	1111	----	1111	AHBSAE 0
017162	+1410	0053	5412	0312	0007	6417	11-1	----	1111	\$=JCJ G 0
017163	+1414	0167	0033	0443	5420	7417	1111	----	1111	A 008=P 0
017164	+1420	0646	0267	0026	0117	3417	-111	----	1111	F-B VA010
017165	+1424	0162	0165	0173	0572	7417	1111	----	1111	A A A E 0
017166	+1430	0155	0162	0162	0127	7417	1111	----	1111	A A A AW 0
017167	+1434	0057	0171	0044	0035	7417	1111	----	1111	.A 9 2 0
017170	+1440	0174	0704	0040	0357	7417	1111	----	1111	A GD 5C. 0
017171	+1444	1141	0365	1147	0004	7417	1111	----	1111	16C 1+ 0 0
017172	+1450	0005	5452	0337	0122	6417	11-1	----	1111	E=IC4AR 0
017173	+1454	0007	5456	5715	5472	4017	1---	----	1111	G=,M= 50
017174	+1460	0005	0004	0366	0054	7417	1111	----	1111	E DC = 0
017175	+1464	5465	0566	5467	1176	5017	1-1-	----	1111	= E = I /0
017176	+1470	0226	0715	5536	0316	6417	11-1	----	1111	BVGM 3CN 0
017177	+1474	0112	0337	0056	0236	7417	1111	----	1111	AJC4 ,B3 0
017200	+1500	0535	0431	0313	0241	7417	1111	----	1111	E2QYCKB6 0

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017201	+1504	0244	0175	0011	0221	7417	1111	----	1111	B9A	IBQ	0
017202	+1510	0043	0277	0020	0137	7417	1111	----	1111	88	PA4	0
017203	+1514	0312	0026	0150	0042	7417	1111	----	1111	CJ	VA/	7 0
017204	+1520	0120	0326	0073	1100	7417	1111	----	1111	APCV	I	0
017205	+1524	5525	0415	5527	0332	5017	1-1-	----	1111	UDM	WCZ/0	
017206	+1530	0114	0002	5533	0603	7017	111-	----	1111	AL	B OFC	0
017207	+1534	0017	0140	5566	0261	6417	11-1	----	1111	0A5	B	0
017210	+1540	0444	0043	0032	0157	7417	1111	----	1111	D9	8 ZA.	0
017211	+1544	0016	0061	0007	0114	7417	1111	----	1111	N	GAL	0
017212	+1550	5551	0144	0707	0027	5417	1-11	----	1111	(A9GG	M=0	
017213	+1554	0162	0113	0030	0045	7417	1111	----	1111	A	AK X +	0
017214	+1560	0046	0004	0104	0000	7016	111-	----	111-	-	DAD	N
017215	+1564	0216	0273	5645	0261	6417	11-1	----	1111	BNB	,+B	0
017216	+1570	0116	0274	0172	0157	7417	1111	----	1111	ANB	A A.	0
017217	+1574	0223	0063	0205	5600	7417	1111	----	1111	BS	BE,	0
017220	+1600	1105	0123	0163	0104	3417	-111	----	1111	IEASA	AD10	
017221	+1604	0251	0265	0243	0343	7417	1111	----	1111	B(B	B8C8	0
017222	+1610	0306	0051	0155	0100	7417	1111	----	1111	CF	(A A	0
017223	+1614	0030	0035	0050	0021	7417	1111	----	1111	X	2 /	0 0
017224	+1620	0120	5622	1054	0242	6417	11-1	----	1111	AP,RH=	B7	0
017225	+1624	5625	5626	0335	0106	4417	1--1	----	1111	,U,VC2	AF90	
017226	+1630	0001	0007	0036	0512	7417	1111	----	1111	A	G 3FJ	0
017227	+1634	0653	0002	0117	5640	7417	1111	----	1111	F	BA0,5	0
017230	+1640	0610	0150	0006	5644	3417	-111	----	1111	FHA/	F,910	
017231	+1644	0147	5705	0004	0014	1417	--11	----	1111	A*.E	D LLO	
017232	+1650	0331	5652	0636	0003	6417	11-1	----	1111	CY,1F3	C	0
017233	+1654	0143	0115	0046	0177	7417	1111	----	1111	A8AM	-A	0
017234	+1660	0177	0120	0707	0040	7417	1111	----	1111	A	APGC	5 0
017235	+1664	0040	0124	0036	0454	7417	1111	----	1111	5AT	3D=	0
017236	+1670	0044	0712	0044	0044	7417	1111	----	1111	9CJ	9 9	0
017237	+1674	0532	0065	0170	0463	7417	1111	----	1111	EZ	A D	0
017240	+1700	0372	0040	0271	5704	7417	1111	----	1111	C	5B .D	0
017241	+1704	0606	5706	4543	0370	0417	---1	----	1111	FF.F+8C	DO	
017242	+1710	0226	0164	0174	0054	7417	1111	----	1111	BVA	A =	0
017243	+1714	0000	5716	0355	0757	0407	---1	----	-111	.NC	G.DG	
017244	+1720	5723	0651	0263	5724	7017	111-	----	1111	.SF(B	.T	0
017245	+1724	0613	0217	0106	5730	3417	-111	----	1111	FKBOAF.	X10	
017246	+1730	5731	5732	5733	0315	0017	----	----	1111	.Y.Z.	0CM	0
017247	+1734	5735	5736	0706	0003	4417	1--1	----	1111	.2.3GF	C90	
017250	+1740	0001	0530	5743	5744	7017	111-	----	1111	AEX.	8.9	0
017251	+1744	5745	5746	5747	5750	0017	----	----	1111	.+.-.+.	/	0
017252	+1750	5751	5752	5753	0445	0017	----	----	1111	.(.).\$D+	0	
017253	+1754	5755	0177	5757	5760	5017	1-1-	----	1111	. A	... /0	
017254	+1760	5761	5762	0316	0673	0417	---1	----	1111	. .	CNF DO	
017255	+1764	0001	5766	0700	0225	6417	11-1	----	1111	A.	G BU	0
017256	+1770	5771	5772	0725	0001	4417	1--1	----	1111	. .	GU A90	
017257	+1774	0001	0001	0001	0001	7417	1111	----	1111	A A A	A A	0
017260	+2000	0001	0001	0001	0000	7016	111-	----	111-	A A A	N	
017261	+2004	0000	0000	0000	0000	0000	----	----	----			
-----												
017403	+2514	0000	0000	0000	3777	0001	----	----	---1		4	A
017404	+2520	0000	0000	0000	0000	0000	----	----	----			
-----												
017524	+3220	0000	0000	3777	3777	0003	----	----	--11		4 4	C

NUMBER OF TRACKS	IDGL 017530 3150	Y/ F25 C	ALLOCATION FLAGS	DILL 017543 0000	8
RESERVED	0000		CH 2 ACCESS 7154 FLAG	60	
LENGTH OF TRT	0632		CH 1 ACCESS 7154 FLAG	61	
FIRST AVAIL TRACK PTR	4066		CH 4 ACCESS 7154 FLAG	00	
NUM AVAILABLE TRACKS	0365		CH 3 ACCESS 7154 FLAG	00	
FLAGS / INTERLOCK	ACGL 017531 0000	JS A	BIT 21 IS MAINTENANCE MODE	0	
DA ECS CHAIN FIRST TRACK	0000		MEMORY TYPE - 3 BIT VALUE	0	
DIRECT ACCESS FILE CNT	1223		CPU TYPE - 3 BIT VALUE	0	
FIRST TRACK IQFT	0000		PP PATH TYPE - 3 BIT VALUE	0	
REDEFINITION STATUSES	01		RESERVED	00	
PF UTILITY INTERLOCK	00		ALGORITHM INDEX	02	
ECS ADDRESS MST/TRT	SDGL 017532 00000000		DAYFILE TRACK	DULL 017544 0000	
ECS UPDATE COUNT	0000000000		ACCOUNT FILE TRACK	0000	
MACHINE MASK INTERLOCK	00		ERRLOG TRACK	0000	
FIRST TRACK IAPF	ALGL 017533 4043	585 59 5	SYSTEM TABLE TRACK	0000	
LABEL TRACK	4000		FAMILY IDLE STATUS	0	
FIRST TRACK PERMITS	4044		FAMILY ACTIVITY COUNT	000	
NUMBER CATALOG TRACKS	0040		LOCAL STATUS FLAGS	STLL 017545 0000	62 D I
FIRST TRACK DAT	0000		RESERVED	00	
FAMILY OR PACK NAME	PFGL 017534 16172303142310	NOSCLSH9 A	ERROR STATUS	00	
DEVICE NUMBER	44		MACHINE ID	4135	
RESERVED	00		CURRENT USER COUNT DAF	0004	
REL UNIT MULTUNIT DEV	0		NEXT EQUIPMENT	00	
NUM UNIT MULTUNIT DEV	1		ORIGINAL NUMBER UNITS	1	
USER NUM PRIVATE PACK	PUGL 017535 00000000000000	APT	LOCAL STATUS	1	
DEVICE MASKS	012024		REDEF IN PROG/NULL EQ	DOLL 017546 0	A DC
FLAGS AND DAT INDEX	MDGL 017536 1000	H 88DI GF	RESERVED	0	
FT-HT FLAG */* SECTOR LIMIT	4343		NUMBER PHYSICAL UNITS - 1	01	
DRIVER NAME	0411		EQUIPMENT UNIT LIST	00000000000000403	
0 RESERVED FOR PPR USE	0000		LOCAL INSTAL AREA	ISLL 017547 000000000000000000	
SECTOR LIMIT	0706				
RESERVED	R1GL 017537 00000000000000000000				
GLOBAL INSTAL AREA	ISGL 017540 00000000000000000000				
	I2GL 017541 00000000000000000000				
ACTIVITY COUNT	DALL 017542 0000	F			
UNIT INTERLOCKS	0000				
CURRENT POSITION	6506				
NEXT BEST POSITION	7777				
RESERVED	0000				

# TRACK RESERVATION TABLE

017550 +0000	4001 4002 4003 4005 4017	1--- ---- 1111	5A5B5C5E50
017551 +0004	3777 4006 4007 4010 0017	---- ---- 1111	4 5F5G5H 0
017552 +0010	4011 4012 4013 4014 0017	---- ---- 1111	515J5K5L 0
017553 +0014	4015 4016 4017 4020 0017	---- ---- 1111	5M5N5O5P 0
017554 +0020	4021 4022 4023 4024 0017	---- ---- 1111	5Q5R5S5T 0
017555 +0024	4025 4026 4027 4030 0017	---- ---- 1111	5U5V5W5X 0
017556 +0030	4031 4032 4033 4034 0017	---- ---- 1111	5Y5Z5051 0
017557 +0034	4035 4036 4037 4040 0017	---- ---- 1111	52535455 0
017560 +0040	4041 4042 0000 4073 0417	---1 ---- 1111	5657 5 00
017561 +0044	0227 0005 4047 4050 7017	111- ---- 1111	8W 5E5F 0
017562 +0050	0576 0047 0054 0101 3417	-111 ---- 1111	E * -AA10
017563 +0054	0102 0437 0131 0125 7417	1111 ---- 1111	ABD4AYAU 0
017564 +0060	0005 0077 4063 0005 7017	111- ---- 1111	E 5 E 0
017565 +0064	0052 0021 0133 0116 7417	1111 ---- 1111	J QA0AN 0
017566 +0070	4071 4072 0145 4241 4017	1--- ---- 1111	5 5 A+7650

RA = MST,6,7,11,12,13,14.  
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017567	+0074	0250	4076	4077	4100	6017	11--	----	1111	8/5 5 6 0
017570	+0100	0010	0324	0126	0134	3417	-111	----	1111	HCTAVA110
017571	+0104	4105	4106	4107	4110	4017	1---	----	1111	6E6F6G6H50
017572	+0110	0464	4112	4113	4114	2017	-1---	----	1111	D 6J6K6LP0
017573	+0114	4115	4116	4117	4120	0017	----	----	1111	6M6N6O6P 0
017574	+0120	0620	0031	0457	0002	3417	-111	----	1111	FP YD. 810
017575	+0124	0457	0335	0134	0006	7417	1111	----	1111	D.C2A1 F 0
017576	+0130	0325	0256	0457	0335	7417	1111	----	1111	CUB,D.C2 0
017577	+0134	4135	4136	4137	4140	4017	1---	----	1111	6263646550
017600	+0140	0464	4142	4143	4144	2017	-1---	----	1111	D 676869P0
017601	+0144	4145	0464	4147	4150	1017	--1-	----	1111	6+D 6*6/H0
017602	+0150	4151	4152	0464	0005	0417	---1	----	1111	6(6)D E00
017603	+0154	4155	4156	4157	4160	4017	1---	----	1111	6 6,6.6 50
017604	+0160	0464	4162	4163	4164	2017	-1---	----	1111	D 6 6 6 P0
017605	+0164	4165	0464	3777	4170	0417	---1	----	1111	6 D 4 6 D0
017606	+0170	4171	4172	4173	0464	0017	----	----	1111	6 6 6 0 0
017607	+0174	0011	4176	4177	4200	6017	11--	----	1111	I6 6 7 0
017610	+0200	4201	4202	4203	4204	0017	----	----	1111	7A7B7C7D 0
017611	+0204	4205	4206	4207	4210	0017	----	----	1111	7E7F7G7H 0
017612	+0210	4211	4212	4215	3777	0017	----	----	1111	7I7J7M4 0
017613	+0214	3777	0244	3777	3777	0017	----	----	1111	4 894 4 0
017614	+0220	3777	3777	3777	0002	0417	---1	----	1111	4 4 4 8D0
017615	+0224	4225	4226	4227	4230	4017	1---	----	1111	7U7V7W7X50
017616	+0230	4231	4232	4233	4234	0017	----	----	1111	7Y7Z7071 0
017617	+0234	4235	0236	0303	0005	1417	--11	----	1111	72B3CC ELO
017620	+0240	0106	4326	4243	0403	5017	1-1-	----	1111	AF8V78DC/0
017621	+0244	4245	0255	4247	4250	5017	1-1-	----	1111	7+B 7+7//0
017622	+0250	4251	4252	4253	4254	0017	----	----	1111	7(7)7\$7= 0
017623	+0254	4255	4257	3777	4260	0017	----	----	1111	7 7.4 7 0
017624	+0260	4261	4262	4263	4264	0017	----	----	1111	7 7 7 7 0
017625	+0264	4265	4266	4267	4270	0017	----	----	1111	7 7 7 7 0
017626	+0270	4271	0143	4320	4274	1417	--11	----	1111	7 A88P7 LO
017627	+0274	0403	0131	0116	0454	3417	-111	----	1111	DCAYAND=10
017630	+0300	0127	0166	0072	0127	7417	1111	----	1111	AWA AW 0
017631	+0304	0071	4306	0034	0526	6417	11-1	----	1111	8F 1EV 0
017632	+0310	0115	0130	0506	0161	7417	1111	----	1111	AMAXEFA 0
017633	+0314	4315	4316	0136	0065	4417	1--1	----	1111	8M8NA3 90
017634	+0320	4325	0002	0266	0007	3417	-111	----	1111	8U 8B G10
017635	+0324	0017	0620	4344	4330	4417	1--1	----	1111	QFP898X90
017636	+0330	0357	0130	0000	0506	2415	-1-1	----	11-1	C.AX EFTM
017637	+0334	0100	0006	0462	0000	7016	111-	----	111-	A FD N
017640	+0340	0151	0000	0000	0000	4010	1---	----	1---	A( 5H
017641	+0344	4351	0166	0573	0106	3417	-111	----	1111	8(A E AF10
017642	+0350	0125	4376	0166	0057	5417	1-11	----	1111	AUB A .-0
017643	+0354	0103	4356	4357	4360	6017	11--	----	1111	AC8,8.8 0
017644	+0360	4361	0322	0155	0047	1417	--11	----	1111	8 CRA *LO
017645	+0364	0001	0034	0170	0133	7417	1111	----	1111	A 1A AO 0
017646	+0370	0073	3777	0120	0154	5417	1-11	----	1111	4 APA==0
017647	+0374	0001	0266	4525	0214	6417	11-1	----	1111	AB +URL 0
017650	+0400	0002	0002	0002	0102	7417	1111	----	1111	B B BAB 0
017651	+0404	0155	0002	0002	0002	7417	1111	----	1111	A B B B 0
017652	+0410	0002	0114	0002	0117	7417	1111	----	1111	BAL BAO 0
017653	+0414	0007	0004	0003	0002	7417	1111	----	1111	C D C B 0
017654	+0420	0002	0214	4423	4424	7017	111-	----	1111	BRL9S9T 0
017655	+0424	0165	0001	0001	0002	3417	-111	----	1111	A A A B10
017656	+0430	0002	0007	4433	4434	7017	111-	----	1111	B G9091 0
017657	+0434	4435	4436	4437	4440	0017	----	----	1111	92939495 0

RA = MST,6,7,11,12,13,14. EXPRESS 11  
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017660	+0440	4441	4442	4443	4444	0017	----	----	1111	96979899 0
017661	+0444	4445	4446	4447	4450	0017	----	----	1111	9+9-9+9/ 0
017662	+0450	4451	4452	4453	4454	0017	----	----	1111	9(9)9+9= 0
017663	+0454	0111	0230	0172	4460	3417	-111	----	1111	A18XA 9 10
017664	+0460	0275	0265	3777	0163	2417	-1-1	----	1111	B B 4 A 10
017665	+0464	4465	4466	4467	0130	4017	1----	----	1111	9 9 9 AX50
017666	+0470	0167	4507	0222	0343	5417	1-11	----	1111	A +GBRC8=0
017667	+0474	4505	0262	6673	4471	3417	-111	----	1111	+EB 9 10
017670	+0500	4774	4474	0173	6644	7417	1111	----	1111	* 9 A 9 0
017671	+0504	0174	4506	4511	4512	4017	1----	----	1111	A +F+I+J50
017672	+0510	6065	4513	4701	4514	4017	1----	----	1111	+K*A+L50
017673	+0514	4515	4700	0164	4522	1017	--1-	----	1111	+M* A +RH0
017674	+0520	0214	0140	5104	0004	6417	11-1	----	1111	BLA5(0 0 0
017675	+0524	0033	4640	0433	0273	5417	1-11	----	1111	0-5000B =0
017676	+0530	4531	4532	4533	0130	4017	1----	----	1111	+Y+Z+0AX50
017677	+0534	0256	0120	0374	0373	7417	1111	----	1111	B,APC C 0
017700	+0540	4541	4542	4543	4544	4017	1----	----	1111	+6+7+8+950
017701	+0544	4545	4546	4550	3777	0017	----	----	1111	+++--+ /4 0
017702	+0550	0351	0270	4553	0403	3017	-11-	----	1111	C(8 +\$DCX0
017703	+0554	0104	0242	4557	4560	7017	111-	----	1111	ADB7+.* 0
017704	+0560	0343	0450	0162	0027	3417	-111	----	1111	C80/A W10
017705	+0564	4565	4566	4567	4570	4017	1----	----	1111	+ + + + 50
017706	+0570	4571	4572	4573	4574	0017	----	----	1111	+ + + + 0
017707	+0574	4575	4576	4577	4600	0017	----	----	1111	+ + + - 0
017710	+0600	4601	4602	4603	4604	0017	----	----	1111	-A-B-C-D 0
017711	+0604	4605	4606	4607	4610	0017	----	----	1111	-E-F-G-H 0
017712	+0610	4611	4612	4613	4614	0017	----	----	1111	-I-J-K-L 0
017713	+0614	4615	4616	4617	4620	0017	----	----	1111	-M-N-O-P 0
017714	+0620	0424	0400	0050	0016	3017	-11-	----	1111	DT0 / NX0
017715	+0624	0016	4642	4627	4630	1017	--1-	----	1111	N-7-W-XH0
017716	+0630	0546	0055	0020	0023	3417	-111	----	1111	E- P S10
017717	+0634	0034	0016	0033	0032	7417	1111	----	1111	1 N 0 Z 0
017720	+0640	5030	0046	4517	0224	2417	-1-1	----	1111	/X -+0BT0
017721	+0644	0026	0033	3777	0021	6417	11-1	----	1111	V 04 Q 0
017722	+0650	0041	0241	0024	0016	7417	1111	----	1111	686 T N 0
017723	+0654	4655	4656	4657	4660	4017	1----	----	1111	- -,-- 50
017724	+0660	4661	4662	0640	0044	0417	---1	----	1111	- - F5 900
017725	+0664	0021	0015	0016	0001	7417	1111	----	1111	Q M N A 0
017726	+0670	0666	0536	0337	0001	7417	1111	----	1111	F E3C4 A 0
017727	+0674	3777	0062	0110	0104	3417	-111	----	1111	4 AHAD10
017730	+0700	4734	4746	0703	4704	1417	--11	----	1111	*1*-GC+DL0
017731	+0704	0234	0001	0104	0364	3417	-111	----	1111	B1 AADC 10
017732	+0710	0173	0434	0412	0204	7417	1111	----	1111	A D10JBD 0
017733	+0714	0001	4716	4717	4720	6017	11--	----	1111	A*N*0*P 0
017734	+0720	0063	4722	4723	0415	2017	-1--	----	1111	*R*SDMPO
017735	+0724	0102	0276	4727	4730	5017	1-1-	----	1111	ABB *W*X/0
017736	+0730	4731	4732	0244	0045	0417	---1	----	1111	*Y*ZB9 +00
017737	+0734	4735	4750	4737	4740	1017	--1-	----	1111	*2*/+4*5H0
017740	+0740	4742	3777	0063	3777	0017	----	----	1111	*74 4 0
017741	+0744	0105	0011	4762	5077	6417	11-1	----	1111	AE 1+ / 0
017742	+0750	0663	0337	4761	4771	3417	-111	----	1111	F C4* + 10
017743	+0754	0021	5064	0354	3777	5017	1-1-	----	1111	Q/ C=4 /0
017744	+0760	5150	5124	5027	5011	4017	1----	----	1111	(/(T/W/I50
017745	+0764	0045	0572	0240	5214	7017	111-	----	1111	+E B5)L 0
017746	+0770	4777	5230	5640	0670	0417	---1	----	1111	* )X,5F 00
017747	+0774	5002	0312	3777	0472	2017	-1--	----	1111	/RCJ4 D P0
017750	+1000	3777	5231	5101	5005	0417	---1	----	1111	4 )Y(A/ED0

RA = MST,6,7,11,12,13,14.  
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NOS 1-8J03T/R2B. NOS 1.4 STUDY DUMP - MASS STORAGE

017751	+1004	0001	5006	5007	0063	4017	1---	----	1111	A/F/G 50
017752	+1010	0127	5023	0004	0003	5417	1-11	----	1111	AW/S D C=0
017753	+1014	5015	5016	5017	0140	4017	1---	----	1111	/M/N/OA550
017754	+1020	0005	0345	0256	4755	7017	111-	----	1111	EC+B,* 0
017755	+1024	0137	0031	5126	5031	6017	11--	----	1111	A4 Y(V/Y 0
017756	+1030	5172	5035	0556	0005	1417	--11	----	1111	( /2E, FLO
017757	+1034	0022	0064	0622	0262	5417	1-11	----	1111	R FRB =0
017760	+1040	0145	0177	5043	5044	7017	111-	----	1111	A+A /8/9 0
017761	+1044	5045	0063	5047	5050	1017	--1-	----	1111	/+ /*//HO
017762	+1050	5051	5052	0314	0011	0417	---1	----	1111	/(/)CL ID0
017763	+1054	0011	0010	0043	5060	7017	111-	----	1111	I H 8/ 0
017764	+1060	5062	0437	0606	0573	2417	-1-1	----	1111	/ D4FFE TU
017765	+1064	5111	6061	0061	5074	1417	--11	----	1111	(I / LO
017766	+1070	0302	0175	0176	0252	7017	111-	----	1111	CBA A B) 0
017767	+1074	5100	0332	0255	0045	3017	-11-	----	1111	( CZB +X0
017770	+1100	5112	5152	0001	0125	1417	--11	----	1111	(J() AAULO
017771	+1104	4763	0664	0377	0230	3417	-111	----	1111	* F C BX10
017772	+1110	0007	5240	5655	5115	4417	1--1	----	1111	G)5, (M90
017773	+1114	0103	5131	5130	5120	5417	1-11	----	1111	AC(Y(X(P=0
017774	+1120	5637	0117	0103	5140	3417	-111	----	1111	,4AOAC(510
017775	+1124	0500	0373	5200	0110	2417	-1-1	----	1111	E C ) AHT0
017776	+1130	5132	0445	5133	5134	0017	----	----	1111	(ZD+10(1 0
017777	+1134	0563	0054	5137	0201	3017	-11-	----	1111	E =14BAX0
020000	+1140	5147	0075	0535	0325	3417	-111	----	1111	(* E2CU10
020001	+1144	5154	0030	5153	0500	7017	111-	----	1111	(= X(1E 0
020002	+1150	5151	0646	5216	0364	0017	----	----	1111	((F-)NC 0
020003	+1154	5155	5156	5162	0112	0417	----1	----	1111	( (,( AJDO
020004	+1160	0007	0013	5026	0557	6417	11-1	----	1111	G K/VE. 0
020005	+1164	0151	0002	0000	0021	6415	11-1	----	11-1	AI B Q M
020006	+1170	0022	0042	5257	0675	6417	11-1	----	1111	R 7).F 0
020007	+1174	0003	0061	0302	0022	7417	1111	----	1111	C CB R 0
020010	+1200	0150	0622	0353	0103	3417	-111	----	1111	A/FRCSAC10
020011	+1204	0266	0007	0112	5704	7417	1111	----	1111	B GAJ.D 0
020012	+1210	0130	0103	7114	0020	7417	1111	----	1111	AXAC L P 0
020013	+1214	6071	0062	5227	0175	2417	-1-1	----	1111	IWA TO
020014	+1220	0176	0332	0255	5224	7417	1111	----	1111	A CZB )T 0
020015	+1224	5225	5226	0613	0034	0017	----	----	1111	IUIVFK 1 0
020016	+1230	0646	6064	0450	5057	1417	--11	----	1111	F- D//.LO
020017	+1234	0002	0366	0130	6730	5417	1-11	----	1111	9C AX X=0
020020	+1240	5243	0001	0344	5244	3017	-11-	----	1111	18 AC9)9X0
020021	+1244	5245	5663	5247	0311	1017	--1-	----	1111	)*, )*CIHO
020022	+1250	0666	5252	0300	0226	6417	11-1	----	1111	F )IC BV 0
020023	+1254	5255	0226	5507	5423	1017	--1-	----	1111	) BV G-SHO
020024	+1260	0260	0356	5263	5264	7017	111-	----	1111	B C,) ) 0
020025	+1264	5265	5266	5267	5270	0017	----	----	1111	) ) ) ) 0
020026	+1270	5271	5272	5273	0236	0017	----	----	1111	) ) ) 83 0
020027	+1274	0003	0004	5277	5300	7017	111-	----	1111	C D) \$ 0
020030	+1300	5301	5302	0464	0356	0417	---1	----	1111	\$A\$BD C,00
020031	+1304	5305	5306	5307	5310	4017	1---	----	1111	\$E\$F\$G\$H50
020032	+1310	0464	5312	5313	5314	2017	-1--	----	1111	D \$J\$K\$LP0
020033	+1314	5315	0464	0035	0035	1417	--11	----	1111	\$MD 2 2LO
020034	+1320	0066	0020	0110	5324	7417	1111	----	1111	PAH\$T 0
020035	+1324	0614	0005	0004	0011	3417	-111	----	1111	FL E D I10
020036	+1330	5331	0614	0302	0067	5417	1-11	----	1111	\$YFLCB =0
020037	+1334	0215	0056	5347	0002	7417	1111	----	1111	BM , \$* B 0
020040	+1340	5341	0354	5343	5344	5017	1-1-	----	1111	\$6C=\$8\$9/0
020041	+1344	5345	5346	0665	5351	0017	----	----	1111	\$+\$-F \$( 0

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020042	+1350	6616	0014	0302	5354	1417	--11	----	1111	N LCHS=LO
020043	+1354	0614	5356	5357	5360	2017	-1--	----	1111	FLS, S, S PO
020044	+1360	5361	5362	5364	3777	0017	----	----	1111	S S S 4 O
020045	+1364	5365	5366	5367	5370	0017	----	----	1111	S S S S O
020046	+1370	0471	5372	5373	5374	2017	-1--	----	1111	D S S S PO
020047	+1374	5375	0665	5377	0654	1017	--1-	----	1111	S F S F=HQ
020050	+1400	0530	5402	0052	5404	6417	11-1	----	1111	EX=B )=D O
020051	+1404	0354	0006	5407	5410	3017	-11-	----	1111	C= F=G=HXO
020052	+1410	5411	5412	5413	5414	0017	----	----	1111	=I=J=K=L O
020053	+1414	5415	5416	5417	5420	0017	----	----	1111	=M=N=O=P O
020054	+1420	0112	0011	0216	5510	3017	-11-	----	1111	AJ IBN HXO
020055	+1424	0331	0043	5427	0232	7017	111-	----	1111	CY 8=WBZ O
020056	+1430	5431	5432	5433	5434	4017	1----	----	1111	=Y=Z=O=150
020057	+1434	5435	5436	5437	5440	0017	----	----	1111	=2=3=4=5 O
020060	+1440	5441	5442	5443	5444	0017	----	----	1111	=6=7=8=9 O
020061	+1444	5445	5446	0437	0043	0417	----1	----	1111	=+--D4 8DO
020062	+1450	5451	5452	5453	5454	4017	1----	----	1111	=(=)=S==50
020063	+1454	0342	0114	5457	5460	3017	-11-	----	1111	C7AL=-. XO
020064	+1460	0323	5462	5463	5464	2017	-1--	----	1111	CS= = = PO
020065	+1464	5465	5466	5467	5470	0017	----	----	1111	= = = = O
020066	+1470	5471	5472	5473	5474	0017	----	----	1111	= = = = O
020067	+1474	5475	5476	5477	5500	0017	----	----	1111	= = = = O
020070	+1500	5501	5502	5503	5504	0017	----	----	1111	A B C D O
020071	+1504	0570	5506	0233	0405	2017	-1--	----	1111	E F8ODEPO
020072	+1510	5537	5512	0234	5514	2417	-1-1	----	1111	4 J81 LTO
020073	+1514	0145	0102	0103	5520	3417	-111	----	1111	A+ABAC P10
020074	+1520	0146	5522	0150	0105	2417	-1-1	----	1111	A- RA/AETO
020075	+1524	0203	0177	0102	5530	7417	1111	----	1111	BCA AB X O
020076	+1530	0241	0106	0111	0112	3417	-111	----	1111	86AFATIAJ10
020077	+1534	0330	5536	0151	5540	6017	11--	----	1111	CX 3A( 5 O
020100	+1540	5541	5626	0174	0026	1417	--11	----	1111	6,VA VLO
020101	+1544	5545	5546	5550	3777	4017	1----	----	1111	+ - /4 50
020102	+1550	5551	5552	5553	5554	0017	----	----	1111	( ) S = O
020103	+1554	0416	3777	5557	5560	1017	--1-	----	1111	DN4 . HO
020104	+1560	5561	5562	5563	5564	0017	----	----	1111	O
020105	+1564	5565	0416	5567	5570	1017	--1-	----	1111	DN HO
020106	+1570	5571	5572	5573	5574	0017	----	----	1111	O
020107	+1574	5575	5576	5577	5600	0017	----	----	1111	, O
020110	+1600	5601	5602	5603	5604	0017	----	----	1111	,A,B,C,D O
020111	+1604	5605	0022	5607	5610	1017	--1-	----	1111	,E R,G,HHO
020112	+1610	5611	5612	5613	5614	0017	----	----	1111	,I,J,K,L O
020113	+1614	5615	5616	5617	5620	0017	----	----	1111	,M,N,O,P O
020114	+1620	5621	5622	5623	5624	0017	----	----	1111	,Q,R,S,T O
020115	+1624	5625	0022	6021	0002	0417	----1	----	1111	,U R O 800
020116	+1630	5631	5632	5633	5634	4017	1----	----	1111	,Y,Z,O,150
020117	+1634	5635	0062	0265	5656	1017	--1-	----	1111	,2 B ,HO
020120	+1640	6624	0112	4725	0000	3016	-11-	----	111-	TAJ*U XN
020121	+1644	5645	5646	5647	5650	4017	1----	----	1111	,+,-,*,/50
020122	+1650	5651	5652	5653	5654	0017	----	----	1111	,(,),S,= O
020123	+1654	0011	0402	5657	0464	0017	----	----	1111	IDB,.D O
020124	+1660	5661	5662	5664	5660	0017	----	----	1111	, , , , O
020125	+1664	5677	0151	5667	5670	3017	-11-	----	1111	, A( , , XO
020126	+1670	5671	5672	5673	0275	0017	----	----	1111	, , , B O
020127	+1674	0071	0626	0000	5700	6015	11--	----	11-1	FV . M
020130	+1700	5073	0133	0000	3777	2015	-1--	----	11-1	/ A0 4 PM
020131	+1704	0225	0000	0000	0000	0010	----	----	1----	BU H
020132	+1710	5711	5712	5713	5714	4017	1----	----	1111	.I.J.K.L50

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020133	+1714	5715	5716	5717	5720	0017	----	----	1111	.M.N.O.P O
020134	+1720	5721	5722	5723	5724	0017	----	----	1111	.Q.R.S.T O
020135	+1724	5725	5726	5727	5730	0017	----	----	1111	.U.V.W.X O
020136	+1730	5731	5732	5733	5735	0017	----	----	1111	.Y.Z.O.2 O
020137	+1734	3777	5736	5737	5740	0017	----	----	1111	4 .3.4.5 O
020140	+1740	5741	5742	5743	5744	0017	----	----	1111	.6.7.8.9 O
020141	+1744	5745	5746	5747	5750	0017	----	----	1111	.+.-.*./ O
020142	+1750	5751	5752	5753	5754	0017	----	----	1111	.(.).\$.= O
020143	+1754	5755	5756	5757	5760	0017	----	----	1111	. . . . . O
020144	+1760	5761	5762	5763	5764	0017	----	----	1111	. . . . . O
020145	+1764	5765	5766	5767	5770	0017	----	----	1111	. . . . . O
020146	+1770	0135	0000	0302	0565	1413	--11	----	1-11	A2 CBE LK
020147	+1774	0620	5776	5777	6000	6017	11--	----	1111	FP. . O
020150	+2000	6001	6002	6004	3777	0017	----	----	1111	A B D4 O
020151	+2004	6005	6006	6007	0327	0017	----	----	1111	E F GCW O
020152	+2010	6011	0176	0317	0204	5417	1-11	----	1111	IA COBD=O
020153	+2014	0000	0524	6017	6020	3007	-11-	----	-111	ET O PXG
020154	+2020	0153	6033	0222	0245	1417	--11	----	1111	A\$ OBRB+LO
020155	+2024	0111	0024	0637	0001	7417	1111	----	1111	AI TF4 A O
020156	+2030	0112	0162	0000	6050	6015	11--	----	11-1	AJA / M
020157	+2034	0045	0000	0000	0000	4010	1---	----	1---	+ 5H
020160	+2040	0000	0000	0000	0000	0000	----	----	----	

020162	+2050	6056	0000	0315	0103	1413	--11	----	1-11	, CHACLK
020163	+2054	0111	0000	6131	3777	4013	1---	----	1-11	AI Y4 5K
020164	+2060	0014	6446	0000	0000	4014	1---	----	11--	L - 5L
020165	+2064	6651	5001	0000	0000	0014	----	----	11--	(/A L
020166	+2070	0016	0572	0000	0000	4014	1---	----	11--	NE 5L
020167	+2074	0035	0326	0040	0004	7417	1111	----	1111	2CV 5 D O
020170	+2100	0004	0000	0040	0005	5413	1-11	----	1-11	D 5 E=K
020171	+2104	0036	0054	4623	0036	7417	1111	----	1111	3 --S 3 O
020172	+2110	4624	0054	0000	0000	6014	11--	----	11--	-T = L
020173	+2114	0000	0000	0000	0000	0000	----	----	----	
020174	+2120	0000	0000	0027	0033	1403	--11	----	--11	W OLC
020175	+2124	0337	0021	0000	0000	6014	11--	----	11--	C4 Q L
020176	+2130	0141	6164	0123	6134	5417	1-11	----	1111	A6 AS 1=O
020177	+2134	0154	6136	6137	0205	2017	-1--	----	1111	A= 3 4BEPO
020200	+2140	0202	0122	0346	0045	7417	1111	----	1111	BBARC- + O
020201	+2144	0030	0027	0044	0161	7417	1111	----	1111	X W 9A O
020202	+2150	0006	0337	0011	0010	7417	1111	----	1111	FC4 I H O
020203	+2154	0025	0453	0006	0167	7417	1111	----	1111	UD\$ FA O
020204	+2160	0220	0052	0001	3777	7017	111-	----	1111	BP ) A4 O
020205	+2164	6267	0315	0422	0013	3417	-111	----	1111	CMDR K10
020206	+2170	0012	0034	0071	0030	7417	1111	----	1111	J 1 X O
020207	+2174	0012	0334	6177	6200	7017	111-	----	1111	JC1 O
020210	+2200	6201	6202	6203	6204	0017	----	----	1111	A B C D O
020211	+2204	6205	6206	6207	6210	0017	----	----	1111	E F G H O
020212	+2210	6211	6212	6213	6214	0017	----	----	1111	I J K L O
020213	+2214	6215	6216	0463	0012	0417	----1	----	1111	M ND JDO
020214	+2220	0040	0020	0123	0557	7417	1111	----	1111	5 PASE. O
020215	+2224	0005	0277	0053	0036	7417	1111	----	1111	EB \$ 3 O
020216	+2230	0046	0433	0005	0011	7417	1111	----	1111	-DO E I O
020217	+2234	0557	0074	0062	0423	7417	1111	----	1111	E. DS O
020220	+2240	0040	0044	0014	0013	7417	1111	----	1111	5 9 L K O
020221	+2244	0012	0013	0017	0027	7417	1111	----	1111	J K O W O
020222	+2250	0012	0002	0053	0220	7417	1111	----	1111	J B \$BP O
020223	+2254	0021	6256	0657	0025	6417	11-1	----	1111	Q ,F. U O

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020224	+2260	0014	0012	0005	0021	7417	1111	----	1111	L J E Q D
020225	+2264	0137	6266	0530	6320	6017	11--	----	1111	A4 EX P D
020226	+2270	0141	0201	0175	0065	7417	1111	----	1111	A6BAA O
020227	+2274	6275	6276	0171	0370	4417	1--1	----	1111	A C 9D
020230	+2300	0001	0111	0514	6304	7417	1111	----	1111	AAIEL D O
020231	+2304	0253	0122	0000	3777	2015	-1--	----	11-1	B\$AR 4 PM
020232	+2310	0000	0205	6313	6314	3007	-11-	----	-111	BE K LXG
020233	+2314	6315	0070	6317	0132	1017	--1-	----	1111	M OAZHO
020234	+2320	6345	0267	0020	0000	3016	-11-	----	111-	+B P XN
020235	+2324	0000	0000	0000	0120	0401	---1	----	---	APDA
020236	+2330	0551	0302	0532	0505	7417	1111	----	1111	EICBEZEE O
020237	+2334	0000	6336	0154	0056	2407	-1-1	----	-111	3A- ,TG
020240	+2340	0266	0131	0000	0002	6415	11-1	----	11-1	B AY 8 M
020241	+2344	0112	6375	0000	5254	4415	1--1	----	11-1	AJ )=9M
020242	+2350	0000	0000	6353	6354	1003	--1-	----	--11	\$ -HC
020243	+2354	0145	6356	6357	6361	2017	-1--	----	1111	A+ , . PO
020244	+2360	3777	6362	6363	6364	0017	----	----	1111	4 O
020245	+2364	6365	6366	6367	0311	0017	----	----	1111	CI O
020246	+2370	6371	6372	0133	0476	4417	1--1	----	1111	AOD 90
020247	+2374	0000	6427	0131	6400	1407	--11	----	-111	WAY LG
020250	+2400	6401	6402	6403	6404	0017	----	----	1111	A B C D O
020251	+2404	0347	0102	0465	0044	3417	-111	----	1111	C*ABO 910
020252	+2410	0102	0160	0101	0066	7417	1111	----	1111	ABA AA O
020253	+2414	3777	0064	0041	0210	3417	-111	----	1111	4 6BH10
020254	+2420	6421	0200	6423	6424	5017	1-1-	----	1111	QB S T/O
020255	+2424	0670	6426	0372	6465	2017	-1--	----	1111	F VC PO
020256	+2430	6431	0564	6433	6434	5017	1-1-	----	1111	YE O 1/O
020257	+2434	6435	6436	6437	0347	0017	----	----	1111	2 3 4C* O
020260	+2440	6441	0316	0000	0000	4014	1--	----	11--	6CN 5L
020261	+2444	4767	0000	6653	0000	4012	1--	----	1-1-	* \$ 5J
020262	+2450	0071	0001	0177	0001	7417	1111	----	1111	AA A O
020263	+2454	0011	0107	0000	0000	6014	11--	----	11--	IAG L
020264	+2460	0000	0000	0000	0000	0000	----	----	----	
020265	+2464	0000	6506	0375	6470	1407	--11	----	-111	FC LG
020266	+2470	6471	6472	0422	6474	0417	---1	----	1111	DR DO
020267	+2474	6475	0205	6477	6500	1017	--1-	----	1111	BE HO
020270	+2500	0012	0366	0345	0366	3417	-111	----	1111	JC C+C 10
020271	+2504	0346	0345	6610	0020	6417	11-1	----	1111	C-C+ H P O
020272	+2510	0004	0040	0014	0002	7417	1111	----	1111	D 5 L B O
020273	+2514	0162	6516	0160	0003	6417	11-1	----	1111	A NA C O
020274	+2520	6521	0625	0161	0001	5417	1-11	----	1111	QFUA A=O
020275	+2524	0011	0011	0410	0002	7417	1111	----	1111	I IDH B O
020276	+2530	0015	0102	6533	0317	7017	111-	----	1111	MAB OCO O
020277	+2534	0027	0007	0007	0003	7417	1111	----	1111	W G G C O
020300	+2540	0003	0015	0015	0015	7417	1111	----	1111	C M M M O
020301	+2544	0015	6546	0157	6550	6417	11-1	----	1111	M -A. / O
020302	+2550	0270	6552	6553	0061	2017	-1--	----	1111	B ) \$ PO
020303	+2554	0027	3777	6557	0321	5017	1-1-	----	1111	W4 .CQ/O
020304	+2560	0642	0645	0001	6564	7417	1111	----	1111	F7F+ A O
020305	+2564	6567	3777	3777	0063	0017	----	----	1111	4 4 O
020306	+2570	3777	0001	0001	0001	3417	-111	----	1111	4 A A A10
020307	+2574	0001	0001	0001	0000	7016	111-	----	111-	A A A N
020310	+2600	0035	0055	0151	0000	7016	111-	----	111-	2 AI N
020311	+2604	0001	0001	0001	0246	7417	1111	----	1111	A A AB- O
020312	+2610	6635	0364	0463	0165	3417	-111	----	1111	2C D A 10
020313	+2614	0001	6620	4625	0027	6417	11-1	----	1111	A P-U W O
020314	+2620	0016	0000	0000	4770	0411	---1	----	1--1	N * DI

RA = MST,6,7,11,12,13,14. EXPRESS 11  
0000000 CM 16.23.30. 79/08/17. (35) CYBER 174 S/N 620 CLSH.

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020337	+2734	0000	0000	0000	0000	0000	----	----	----			
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020376	+3130	0000	0000	0000	7134	0001	----	----	----		1	A
020377	+3134	7142	0000	0000	0000	0010	----	----	1---	7		H
020400	+3140	0000	0000	7144	0000	0002	----	----	--1-		9	B
020401	+3144	0263	0000	0000	0000	0010	----	----	1---	8		H

0VJ

## EVALUATION FORM

Course/Seminar Name \_\_\_\_\_ Date of Attendance From \_\_\_\_\_ To \_\_\_\_\_

Instructor \_\_\_\_\_ Location \_\_\_\_\_

Please place a rating in the box for each area and then add comments explaining your rating.

### *Rating Key*

<i>Excellent</i>	<i>5</i>
<i>Very Good</i>	<i>4</i>
<i>Good</i>	<i>3</i>
<i>Fair</i>	<i>2</i>
<i>Poor</i>	<i>1</i>

### **The Course/Seminar**

- \* How well did the course/seminar cover the stated objectives? ☐
- \* To what degree will the course/seminar be helpful in improving on-the-job performance? ☐
- \* To what extent were the handout materials and visuals helpful in aiding your understanding of the topic? ☐
- \* What is your overall rating of the organization and content of the course/seminar? ☐

### **The Instructor**

- \* How do you rate the instructor's knowledge of the material and ability to answer questions? ☐
- \* How effective was the instructor in presenting the material in an understandable manner? ☐
- \* How effective was the instructor in generating and sustaining interest in the course/seminar? ☐
- \* How do you rate the instructor's responsiveness to the needs of participants? ☐
- \* What is your overall rating of the instructor? ☐

### **The Facilities**

- \* How do you rate the appropriateness of the facilities to the topic and means of presentation? ☐
- \* To what extent were the facilities comfortable, well-lighted and heated or cooled? ☐
- \* How convenient was the location of the facility? ☐

## EVALUATION FORM

Page 2

### General Comments

- \* What changes in the course/seminar would you make if you were the instructor?

- \* Would you recommend this course/seminar to others in your company or department? Why?

- \* Please list colleagues or associates who should receive advance notices of similar courses/seminars.

1) Name _____	2) Name _____
Organization _____	Organization _____
Address _____	Address _____
_____	_____
Bus. Tel. No. _____	Bus. Tel. No. _____
3) Name _____	4) Name _____
Organization _____	Organization _____
Address _____	Address _____
_____	_____
Bus. Tel. No. _____	Bus. Tel. No. _____

- \* Should this course be offered at your company site? If so, who should be contacted to manage it?

- \* If we may use your comments in future descriptions of the course/seminar, please sign below.

Signature \_\_\_\_\_

(Optional)

## PARTICIPANT INFORMATION FORM

In order for our seminars/courses to be most effective, they need to take into account the characteristics, needs and objectives of the people who attend them. The information asked for below will assist us in keeping our presentations relevant to the participants and in developing and scheduling new presentations that will meet participant needs. Please complete this form and leave it with the presenter at the next break.

Seminar/Course Title \_\_\_\_\_ Date of Presentation \_\_\_\_\_  
Name \_\_\_\_\_ Field or Type of Business \_\_\_\_\_  
Title \_\_\_\_\_ Years of Experience \_\_\_\_\_  
Business Address \_\_\_\_\_ Supervisor's Title \_\_\_\_\_  
\_\_\_\_\_ Last professional degree \_\_\_\_\_  
\_\_\_\_\_

List your three primary objectives in attending this seminar.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Will this course/seminar be credited toward certification/training requirements? \_\_\_\_\_

Rank in order of importance in your choice of this seminar session.

Instructor \_\_\_\_\_ Date \_\_\_\_\_ Location \_\_\_\_\_ Employer's Preference \_\_\_\_\_

Previous courses/seminars attended relating to this topic.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Topics for additional courses/seminars in which you would be interested.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

## **PARTICIPANT INFORMATION FORM**

**Page 2**

What trade journals/magazines do you regularly read or subscribe to in order to keep abreast in your profession?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

How did you become aware of this course/seminar?

**Schedule/Catalogue** \_\_\_\_\_,

**Direct Mail Brochure** \_\_\_\_\_,

**Recommendations of Supervisor** \_\_\_\_\_,

**Recommendation of Colleague** \_\_\_\_\_,

**Corporate Training Department** \_\_\_\_\_,

**Other** \_\_\_\_\_ .

## COMMENT SHEET

MANUAL TITLE: NOS ANALYSIS

PUBLICATION NO.: FH4010-1

REVISION: C

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

This form is not intended to be used as an order blank. Control Data Corporation welcomes your evaluation of this manual. Please indicate any errors, suggested additions or deletions, or general comments below (please include page number references).

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